## **Product Datasheet**

# mCherry Antibody - BSA Free NBP2-25157

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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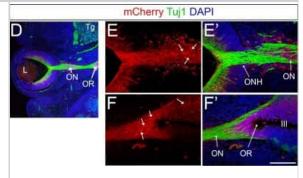


mCherry Antibody - BSA Free	
Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.035% Sodium Azide
Purity	Immunogen affinity purified
Buffer	50% PBS, 50% glycerol
Target Molecular Weight	27 kDa
Product Description	
Host	Rabbit
Species	Non-species specific
Specificity/Sensitivity	This antibody has cross-reactivity to TDtomato but not GFP.
Immunogen	This mCherry Antibody was developed against full length recombinant mCherry protein
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Live Imaging Microscopy, Fluorescence Imaging, Immunohistochemistry Whole-Mount, Knockdown Validated
Recommended Dilutions	Western Blot 1:1000, Immunohistochemistry 1:500, Immunocytochemistry/ Immunofluorescence 1:500, Immunohistochemistry-Paraffin, Live Imaging Microscopy, Immunohistochemistry Whole-Mount, Knockdown Validated, Fluorescence Imaging
Application Notes	Use in Immunohistochemistry Whole-Mount reported in scientific literature (PMID:35013168) This mCherry antibody is useful for Immunocytochemistry/Immunofluorescence and Western Blot, where a band can be seen at ~28 kDa.  Use in IHC and IHC-P reported in scientific literature (PMID: 27396338 and 28891816 respectively).  Use in Live Imaging Microscopy was reported from a verified customer review. Knockdown validation (PMID: 32494070).

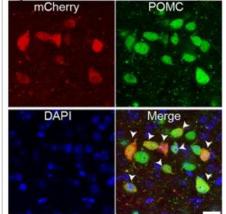


#### **Images**

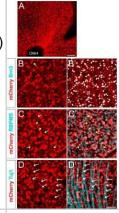
Immunohistochemistry: mCherry Antibody [NBP2-25157] - Brn3b-mCherry expression in other regions of the CNS. Optic tracts at P0 visualized by mCherry staining (white arrows). (BAE) Co-localization experiments with mCherry (red) and pan-Brn3 (green) antibodies at P0. (CAE) Co-localization with mCherry (red) and Tuj1 (green) in the trigeminal ganglia at E13. 5. Arrows indicate mCherry+ Tuj+ neurons. Image collected and cropped by Citeab from the following publication (A Novel Reporter Mouse Uncovers Endogenous Brn3b Expression. Int J Mol Sci (2019)) licensed under a CC-BY license.



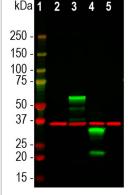
Immunohistochemistry: mCherry Antibody [NBP2-25157] - Activation of TRPV1 receptors in ARC POMC neurons reduces food intake. Expression of Gi/o-DREADD in POMC neurons in the ARC (top left panel, scale bar: 20 um). Arrowheads represent POMC neurons that co-expressed mCherry (n = 493 out of 529 mCherry-positive neurons, n = 3 mice). Treatment with CNO (10 uM) hyperpolarized POMC neurons (top right panel; Control, -40.7 +/- 1.5 mV; CNO, -47.1 +/- 2.3 mV, n = 6 neurons, \*\*p < 0.01). Scale bar: 25 mV, 2 min. Bottom panel: In the presence of CNO, treatment of the TRPV1 agonist was not able to depolarize POMC neurons (n = 3 neurons). Scale bar: 20 mV, 100 s. Image collected and cropped by CiteAb from the following publication (//doi.org/10.1371/journal.pbio.2004399) licensed under a CC-BY license.



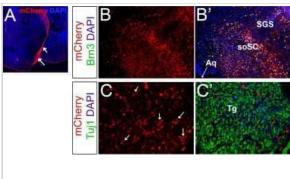
Immunohistochemistry-Paraffin: mCherry Antibody [NBP2-25157] - Brn3b-mCherry expression in the adult retina. Flat-mounted retina labeled with anti-mCherry antibody. (BAE) mCherry (red) and Brn3 (teal) colocalization. Yellow arrow indicates a Brn3+ mCherry-cell. (CAE) mCherry (red) and RBPMS (teal) colocalization. Yellow arrows indicate RBPMS+ mCherry-cell bodies. (DAE) mCherry (red) and Tuj1 (teal) colocalization. Image collected and cropped by Citeab from the following publication (A Novel Reporter Mouse Uncovers Endogenous Brn3b Expression. Int J Mol Sci (2019)) licensed under a CC-BY license.



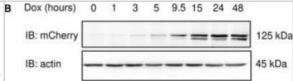
Western Blot: Rabbit Polyclonal mCherry Antibody [NBP2-25157] - Analysis of HEK293 cell lysates using rabbit polyclonal mCherry antibody, dilution 1:3000, in green, and mouse mAb to GAPDH, dilution 1:2000, in red: [1] protein standard, [2] HEK293 control cells, [3] HEK293 cells transfected with pCl-Neo-mod vector expressing two tdTomato protein domains, [4] HEK293 cells transfected with pCl-mod vector expressing one mCherry-HA protein domain, and [5] HEK293 cells transfected with pCl-Neo-mod vector expressing one GFP domain. The rabbit polyclonal mCherry antibody recognizes tdTomato and mCherry proteins revealing major bands at about 60kDa and 30kDa, in green, respectively, but does not recognize GFP. The red band at 37kDa corresponds to GAPDH protein here used as a loading control.



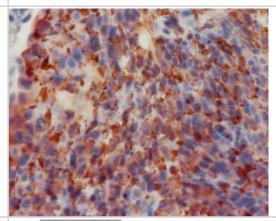
Immunocytochemistry/Immunofluorescence: mCherry Antibody [NBP2-25157] - Brn3b-mCherry expression in other regions of the CNS. (A) Optic tracts at P0 visualized by mCherry staining (white arrows). (B,BAE) Co-localization experiments with mCherry (red) and pan-Brn3 (green) antibodies at P0. (C,CAE) Co-localization with mCherry (red) and Tuj1 (green) in the trigeminal ganglia at E13. 5. Arrows indicate mCherry+ Tuj+ neurons. Low magnification image of a horizontal E13. 5 whole-head section. EAE"FAE) White arrows indicate mCherry+ Tuj1-cells present in the optic stalk and optic recess. Image collected and cropped by Citeab from the following publication (A Novel Reporter Mouse Uncovers Endogenous Brn3b Expression. Int J Mol Sci (2019)) licensed under a CC-BY license.



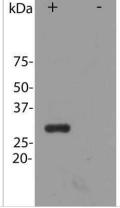
Western Blot: mCherry Antibody [NBP2-25157] - PKN3 overexpression regulates growth of MEFs, and this effect requires PKN3AE p130Cas interaction. Immunoblotted lysates from MEFs p130CasA/A or MEFs p130CasA/A reAE expressing p130Cas (p130Cas+) treated by Doxycycline (Dox) to induce expression of mCherryAE PKN3 or mCherry alone. p130Cas presence was detected by aniAE p130Cas antibody and mCherry epitope by anti mCherry antibody. Dynamics of mCherry PKN3 expression after supplementation with Dox shown by immunoblot with anti mCherry antibody. Image collected and cropped by Citeab from the following publication (The interaction of p130Cas with PKN3 promotes malignant growth. Mol Oncol (2019)) licensed under a CC-BY license.



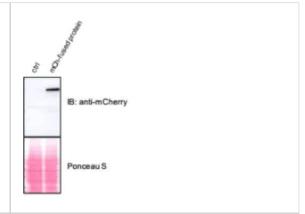
Immunohistochemistry-Paraffin: mCherry Antibody [NBP2-25157] - Staining of a mouse melanoma with over expression of mCherry in lung tissue. IHC-P image submitted by a verified customer review.



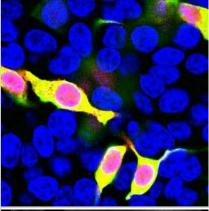
Western Blot: mCherry Antibody [NBP2-25157] - 3 cells transfected with pFin-EF1-mCherry vector, in the lane marked '+'. HEK293 cells which were not transfected with this vector show no protein band in lane marked '-'.



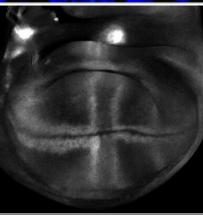
Western Blot: mCherry Antibody [NBP2-25157] - Detection of mCherry-fused protein: MDA-MB-231 cell lysates with and without expression of mCherry-fused protein. WB image submitted by a verified customer review.



Immunocytochemistry/Immunofluorescence: mCherry Antibody [NBP2-25157] - HEK293 cells transfected in the same way and viewed in the confocal microscope. Most HEK293 cells are not transfected so only the nucleus of these cells can be visualized with a blue DNA stain. Cells which are transfected with mCherry are red. Staining with NBP2-25157 is shown in Green. Green antibody staining is only seen in cells which express mCherry, as expected, and the superimposition of the green and red signals results in an orange signal. Interestingly, stronger mCherry staining is seen in the nucleus, possibly due to degradation of some mCherry molecules to release the low molecular weight mCherry fluorochrome. Blot and transfected cells courtesy of the Semple-Rowland lab at the University of Florida.



Fluorescence Imaging: mCherry Antibody [NBP2-25157] - Analysis of a Drosophila wing imaginal disc. Image submitted by a verified customer review.



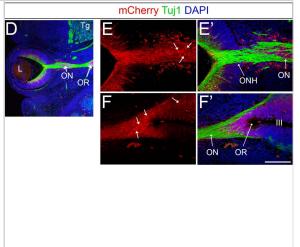
PKN3 activity is important for stress fibers formation & is stimulated by the expression of p130Cas. (A) p130Cas-/-MEFs growing on FN□coated cover slips were co□transfected by GFP□p130Cas & mCherry PKN3 fusion variant (WT, mPR, KD) or mCherry. After 48 h, cells were fixed & imaged by Leica TCS SP2 microscope (63×/1.45 oil objective). Stress fibers were visualized by Phalloidin (405) & focal adhesions by anti Paxillin staining (2nd 633). Representative images are shown. Scale bars represent 20 µm. (B) p130Cas-/-MEFs or p130Cas-/-MEFs re expressing p130Cas or transfected by GFP□fused p130Cas variants (WT, YE, dCCH) were lysed in RIPA buffer, blotted to nitrocellulose membrane, & analyzed for endogenous PKN3 activity by antibody anti phosphoThr849 of PKN3 (pT849 PKN3). Expression of p130Cas mutants was verified by anti p130Cas antibody & loading by anti PKN3 & anti actin antibody. (C) Densitometric quantification of PKN3 activity (pT849 PKN3 phosphorylation). The effect of p130Cas re expression on PKN3 T849 phosphorylation was analyzed separately from the effect of transfected p130Cas mutants (indicated by a dotted line). Error bars indicate means ± SD from three independent experiments (four experiments for the left part). Statistical significance was evaluated by one way repeated ANOVA followed by Turkey's post hoc test (\*P < 0.05; \*\*P < 0.01). (D) Lysates or (E) immunoprecipitates (by Flag sepharose) from p130Cas-/-MEFs re expressing p130Cas & overexpressing PKN3 variants (WT, mPR, KD) were immunoblotted by anti□PKN3, anti□pT849 PKN3, & anti□Akt antibodies (loading control). Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/30422386). licensed under a CC-BY license. Not internally tested by Novus Biologicals.

A PKN3 WT PKN3 mpR PKN3 KD Ctrl

PKN3 WT PKN3 mpR PKN3 KD Ctrl

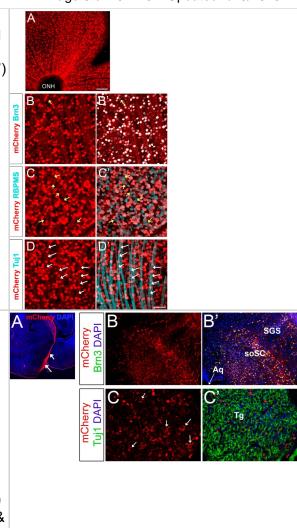
PKN3 WT PKN3 mpR PKN3 KD Ctrl

Immunocytochemistry/ Immunofluorescence: mCherry Antibody [NBP2-25157] - Brn3b-mCherry expression in other regions of the CNS. (A) Optic tracts at P0 visualized by mCherry staining (white arrows). (B.B') Co-localization experiments with mCherry (red) & pan-Brn3 (green) antibodies at P0. (C,C') Co-localization with mCherry (red) & Tuj1 (green) in the trigeminal ganglia at E13.5. Arrows indicate mCherry+ Tuj + neurons. (D) Low magnification image of a horizontal E13.5 wholehead section. E-F') White arrows indicate mCherry+ Tui1- cells present in the optic stalk (E) & optic recess (F). Ag: Agueduct. soSC: stratum opticum of the Superior Colliculus. SGS: Stratum Griseum Superficiale. Tg: Trigeminal ganglion. L: Lens. ONH: Optic Nerve Head. OR: optic recess. III: 3rd ventricle. Scale bar: 100 microns in C,C', E,E' & F,F', 200 microns in B,B', 300 microns in D, & 500 microns in A. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/31197108), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

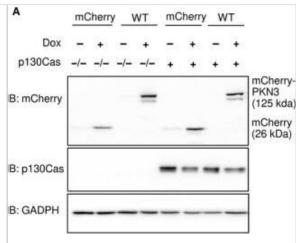


Immunocytochemistry/ Immunofluorescence: mCherry Antibody [NBP2-25157] - Brn3b-mCherry expression in the adult retina. (A) Flat-mounted retina labeled with anti-mCherry antibody. (B,B') mCherry (red) & Brn3 (teal) colocalization. Yellow arrow indicates a Brn3+ mCherry- cell. (C,C') mCherry (red) & RBPMS (teal) colocalization. Yellow arrows indicate RBPMS+ mCherry- cell bodies. (D,D') mCherry (red) & Tuj1 (teal) colocalization. White arrows indicate Tuj1+ mCherry+ axons. (E-E") Cross-section of an adult retina labeled with mCherry (red), RBPMS (gray), DAPI (blue), & Pax6 (green). All mCherry+ cells (white arrows) are RBPMS+. Amacrine cells are labeled with yellow stars & are mCherry- (Pax6+ RBPMS- mCherry- cells). Yellow arrowhead corresponds to an mCherry- RGC (RBPMS+ Pax6- mCherry- cell). ONH: Optic Nerve Head. ONL: Outer Nuclear Layer. INL: Inner Nuclear Layer, GCL: Ganglion Cell Layer, Scale bars: 300 microns in A, 50 microns in B-E". Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/31197108), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

Immunocytochemistry/ Immunofluorescence: mCherry Antibody [NBP2-25157] - Brn3b-mCherry expression in other regions of the CNS. (A) Optic tracts at P0 visualized by mCherry staining (white arrows). (B,B') Co-localization experiments with mCherry (red) & pan-Brn3 (green) antibodies at P0. (C,C') Co-localization with mCherry (red) & Tuj1 (green) in the trigeminal ganglia at E13.5. Arrows indicate mCherry+ Tuj + neurons. (D) Low magnification image of a horizontal E13.5 wholehead section. E-F') White arrows indicate mCherry+ Tui1- cells present in the optic stalk (E) & optic recess (F). Aq: Aqueduct. soSC: stratum opticum of the Superior Colliculus. SGS: Stratum Griseum Superficiale. Tg: Trigeminal ganglion. L: Lens. ONH: Optic Nerve Head. OR: optic recess. III: 3rd ventricle. Scale bar: 100 microns in C,C', E,E' & F,F', 200 microns in B.B', 300 microns in D. & 500 microns in A. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/31197108), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

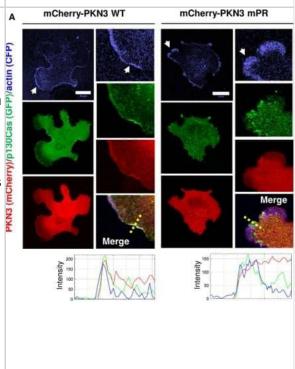


Western Blot: mCherry Antibody [NBP2-25157] - PKN3 overexpression regulates growth of MEFs, & this effect requires PKN3-p130Cas interaction. (A) Immunoblotted lysates from MEFs p130Cas-/-/MEFs p130Cas-/- re expressing p130Cas (p130Cas+) treated by Doxycycline (Dox) to induce expression of mCherry ☐ PKN3/mCherry alone. p130Cas presence detected by ani p130Cas antibody & mCherry epitope by anti mCherry antibody. (B) Dynamics of mCherry PKN3 expression after supplementation w/ Dox shown by immunoblot w/ anti □mCherry antibody. (C-E) Effect of induced mCherry PKN3 expression on cell growth. Representative graphs showing growth of MEFs p130Cas-/- re□expressing p130Cas (p130Cas+) (C)/MEFs p130Cas-/- (D) measured in real time using xCELLigence RTCA (real time cell analysis) system instrument. (E) Quantification of cell growth change induced by mCherry PKN3 expression ('-' indicates inducible mCherry expression used as negative control). Slope ratios reflecting cell growth calculated from log growth phase of cell growth (indicated by dotted lines; see C & D). (F) Immunoblotted lysates from MEFs p130Cas-/- re□expressing p130Cas (p130Cas+) treated/not treated by Dox which induced expression of Flag fused PKN3 variants (WT, mPR, KD, empty vector). Stimulated overexpression of PKN3 detected by anti□PKN3 antibody & its activity by antibody anti pT849 PKN3. (G) Quantification of cell growth change stimulated by Dox□inducible expression of Flag□fused PKN3 variants (WT, mPR, KD) in MEFs p130Cas-/- re□expressing p130Cas (p130Cas +). All error bars indicate means ± SD calculated from 3 to 5 independent experiments (each in triplicates). Statistical significance always calculated between induced & noninduced cells & evaluated by one way repeated ANOVA followed by Turkey post hoc test (\*\*\*P < 0.001). Image collected & cropped by CiteAb from following publication (https://pubmed.ncbi.nlm.nih.gov/30422386), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

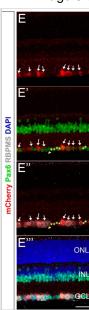


Immunocytochemistry/ Immunofluorescence: mCherry Antibody [NBP2-25157] - PKN3 colocalizes with p130Cas in lamellipodia & podosome rosettes. Representative images are shown. (A) p130Cas-/-MEFs plated on fibronectin (FN) were transfected by GFP□p130Cas, CFP LifeAct, & mCherry PKN3WT or mCherry PKN3 mPR & imaged live 24 h after transfection. White arrow indicates lamellipodia. Histogram of dotted straight line is shown. (B) Quantification of mCherry PKN3 of dotted straight line is shown. (B) Quantification of mCherry □PKN3
WT, mCherry □PKN3 mPR, & mCherry localization to lamellipodia
(LifeAct as marker) was calculated as described in methods (values are mean ± SD from three independent experiments, n > 50 measurements

- 3 per cell; \*\*\*P < 0.001, one □way ANOVA on ranks followed by Dunn's post hoc test). (C) Src □transformed p130Cas −/−MEFs co □expressing p130Cas (SC) & mouse Flag tagged PKN3 WT or Flag ☐ PKN3 mPR are shown. Cells were grown on FN coated coverslips for 48 h, fixed, & stained for p130Cas by anti pTyr165 p130Cas antibody (pY165 p130Cas; 2nd 405), for actin by Phalloidin 488 & for Flag ☐ PKN3 by anti Flag antibody (2nd 633). Reflection (670 nm) indicates fibronecting degradation. All scale bars represent 20 µm. Cell were imaged by Leica TCS SP8 microscope system equipped with Leica 63×/1.45 oil objective. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/30422386), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Immunocytochemistry/ Immunofluorescence: mCherry Antibody [NBP2-25157] - Brn3b-mCherry expression in the adult retina. (A) Flat-mounted retina labeled with anti-mCherry antibody. (B,B') mCherry (red) & Brn3 (teal) colocalization. Yellow arrow indicates a Brn3+ mCherry- cell. (C,C') mCherry (red) & RBPMS (teal) colocalization. Yellow arrows indicate RBPMS+ mCherry- cell bodies. (D,D') mCherry (red) & Tuj1 (teal) colocalization. White arrows indicate Tuj1+ mCherry+ axons. (E-E") Cross-section of an adult retina labeled with mCherry (red), RBPMS (gray), DAPI (blue), & Pax6 (green). All mCherry+ cells (white arrows) are RBPMS+. Amacrine cells are labeled with yellow stars & are mCherry- (Pax6+ RBPMS- mCherry- cells). Yellow arrowhead corresponds to an mCherry- RGC (RBPMS+ Pax6- mCherry- cell). ONH: Optic Nerve Head. ONL: Outer Nuclear Layer. INL: Inner Nuclear Layer. GCL: Ganglion Cell Layer. Scale bars: 300 microns in A, 50 microns in B-E". Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/31197108), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



#### **Publications**

Shao L, Kong F, Tian X, Deng T et Al. Whole-brain inputs and outputs of Phox2b and GABAergic neurons in the nucleus tractus solitarii Front Neurosci 2024-07-01 [PMID: 38948926]

Dai C, Zhang Y, Gong Y, Bradley A et Al. Hyperaminoacidemia from interrupted glucagon signaling increases pancreatic acinar cell proliferation and size via mTORC1 and YAP pathways iScience 2024-12-25 [PMID: 39720531]

Chávez MN, Arora P, Meer M, Marques IJ et Al. Spns1-dependent endocardial lysosomal function drives valve morphogenesis through Notch1-signaling iScience 2024-12-25 [PMID: 39720516]

Lee SK, Kweon YC, Lee AR, Lee YY et Al. Metastasis enhancer PGRMC1 boosts store-operated Ca(2+) entry by uncoiling Ca(2+) sensor STIM1 for focal adhesion turnover and actomyosin formation Cell Rep 2022-01-19 [PMID: 35045297]

Gabbert AM, Campanale JP, Mondo JA, Mitchell NP et Al. Septins regulate border cell surface geometry, shape, and motility downstream of Rho in Drosophila Dev Cell 2023-06-17 [PMID: 37329886]

Wani AR, Chowdhury B, Luong J et al. Stem cell-specific ecdysone signaling regulates the development of dorsal fanshaped body neurons and sleep homeostasis. Current biology: CB 2024-10-01 [PMID: 39383867]

Oscar Rivera, Manish Sharma, Sunayana Dagar, Neelam Shahani, Uri Nimrod Ramírez-Jarquín, Gogce Crynen, Pabalu Karunadharma, Francis McManus, Eric Bonneil, Thibault Pierre, Srinivasa Subramaniam Rhes, a striatal enriched protein, regulates post-translational small-ubiquitin-like-modifier (SUMO) modification of nuclear proteins and alters gene expression. Cellular and molecular life sciences: CMLS 2024-04-10 [PMID: 38589732]

A Ndoye, A Budina-Kol, CH Kugel, MR Webster, A Kaur, R Behera, VW Rebecca, L Li, PA Brafford, Q Liu, YN Vashisht G, MA Davies, GB Mills, X Xu, H Wu, M Herlyn, MC Nicastri, JD Winkler, MS Soengas, RK Amaravadi, ME Murphy, AT Weeraratna ATG5 mediates a positive feedback loop between Wnt signaling and autophagy in melanoma Cancer Res., 2017-09-08;0(0):. 2017-09-08 [PMID: 28887323]

Inbar Dvilansky, Yarin Altaras, Nikita Kamenetsky, Dikla Nachmias, Natalie Elia, Anna Akhmanova The human AAA-ATPase VPS4A isoform and its co-factor VTA1 have a unique function in regulating mammalian cytokinesis abscission PLOS Biology 2024-04-30 [PMID: 38687820]

Sade N, Weng F, Tajima H et al. A Cytoplasmic Receptor-like Kinase Contributes to Salinity Tolerance Plants (Basel) 2020-10-17 [PMID: 33080797]

Nicole L Batenburg, Dana J Sowa, John R Walker, Sara N Andres, Xu-Dong Zhu CSB and SMARCAL1 compete for RPA32 at stalled forks and differentially control the fate of stalled forks in BRCA2-deficient cells Nucleic Acids Research 2024-05-22 [PMID: 38416570]

BL Ecker, A Kaur, SM Douglass, MR Webster, FV Almeida, GE Marino, AJ Sinnamon, MG Neuwirth, GM Alicea, A Ndoye, M Fane, X Xu, MS Sim, GB Deutsch, MB Faries, GC Karakousis, AT Weeraratna Age-Related Changes in HAPLN1 Increase Lymphatic Permeability and Affect Routes of Melanoma Metastasis Cancer Discov, 2018-10-02;9 (1):82-95. 2018-10-02 [PMID: 30279172]

More publications at <a href="http://www.novusbio.com/NBP2-25157">http://www.novusbio.com/NBP2-25157</a>





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### **Products Related to NBP2-25157**

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]

#### Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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