Product Datasheet

PNK Antibody - BSA Free NBP1-87257

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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NBP1-87257

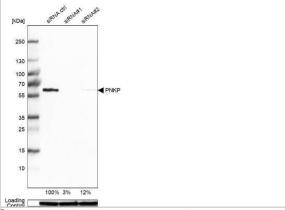
PNK Antibody - BSA Free

PNK Antibody - BSA Free	
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	lgG
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol
Product Description	
Description	Novus Biologicals Knockout (KO) Validated Rabbit PNK Antibody - BSA Free (NBP1-87257) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and Simple Western. Anti-PNK Antibody: Cited in 7 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	11284
Gene Symbol	PNKP
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 26290337).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: PETRTVAVKQLGVNPSTTGTQELKPGLEGSLGVGDTLYLVNGLHPLTLRWEET RTPESQPDTPPGTPLVSQDEKRDAELPKKRMRKSNPGWENLEKLLVFTAAGV KPQGKVAGFDLDGTLITTRSGKVFPTGP
Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Knockdown Validated, Knockout Validated
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Simple Western 1:20, Immunohistochemistry 1:20 - 1:50, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:20 - 1:50, Knockout Validated Validation (PMID: 30158526)., Knockdown Validated
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100. In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See Simple Western Antibody Database for Simple Western validation: Tested in RT-4 and U-251MG, separated by Size, antibody dilution of 1:20, apparent MW was 61 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue.



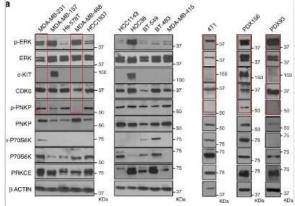
Images

Western Blot: PNK Antibody [NBP1-87257] - Analysis in U-138MG cells transfected with control siRNA, target specific siRNA probe #1 and #2, using Anti-PNKP antibody. Remaining relative intensity is presented. Loading control: Anti-GAPDH.

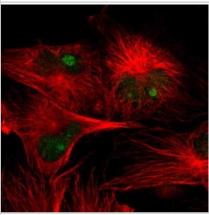


Western Blot: PNK Antibody [NBP1-87257] - In vitro therapeutic efficacy and in vivo pharmacodynamics. Western blotting showing the levels of each of the 6 kinases in the signature, in addition to their non-phosphorylated controls where applicable, in 10 human TNBC cell lines, the transplantable murine TNBC tumor model 4T1, and 2 patient-derived xenografts (PDXs). The three targets against which clinical-grade drugs are available are highlighted in red. Image collected and cropped by CiteAb from the following publication

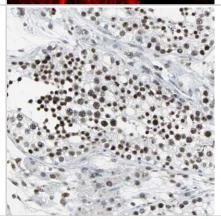
(https://www.nature.com/articles/s41467-018-05742-z), licensed under a CC-BY license.

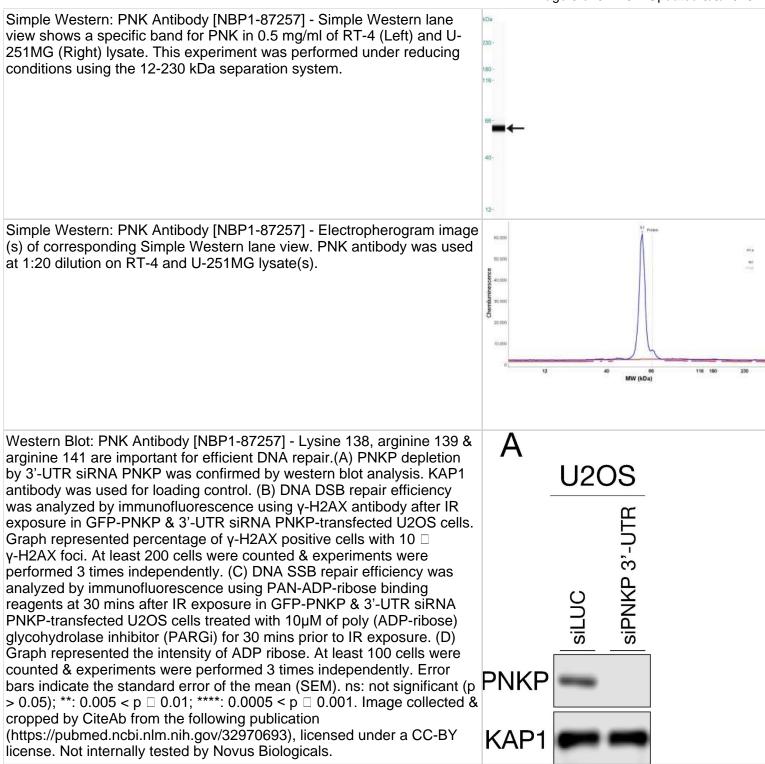


Immunocytochemistry/Immunofluorescence: PNK Antibody [NBP1-87257] - Staining of human cell line U-251 MG shows localization to nucleus & nucleoli. Antibody staining is shown in green.



Immunohistochemistry-Paraffin: PNK Antibody [NBP1-87257] - Staining of human testis shows strong nuclear positivity in cells in seminiferus ducts.





Publications

Pradhan S, Gao R, Bush K Et Al. Huntingtin Maintains Mitochondrial Genome Integrity and Function SSRN Electronic Journal 2021-06-26

Tsukada K, Shimada M, Imamura R et al. The FHA domain of PNKP is essential for its recruitment to DNA damage sites and maintenance of genome stability Mutation Research/Fundamental and Molecular Mechanisms of Mutagenesis 2020-11-01 [PMID: 33220551] (WB, Human)

Tsukada K, Matsumoto Y, Shimada M Linker region is required for efficient nuclear localization of polynucleotide kinase phosphatase PLoS ONE 2020-09-24 [PMID: 32970693] (WB, Human)

Kuzmickas R Therapeutic Targeting of Chromatin Modifiers in Advanced Prostate Cancer Thesis (KD, WB, Mouse)

Zagorac I, Fernandez-Gaitero S, Penning R et al. In vivo phosphoproteomics reveals kinase activity profiles that predict treatment outcome in triple-negative breast cancer Nat Commun. 2018-08-28 [PMID: 30158526] (WB, IF/IHC, KO, Human)

Gao R, Chakraborty A, Geater C, et al. Mutant huntingtin impairs PNKP and ATXN3, disrupting DNA repair and transcription Elife 2019-04-17 [PMID: 30994454] (WB, Mouse)

Yip, MCJ;Keszei, AFA;Feng, Q;Chu, V;McKenna, MJ;Shao, S; Mechanism for recycling tRNAs on stalled ribosomes Nat. Struct. Mol. Biol. 2019-04-22 [PMID: 31011209] (WB, Human)

Maertens O, Kuzmickas R, Manchester HE et al. MAPK pathway suppression unmasks latent DNA repair defects and confers a chemical synthetic vulnerability in BRAF, NRAS, and NF1 mutant melanomas Cancer Discov 2019-02-01 [PMID: 30709805] (WB, Human)

Shimada M, Dumitrache LC, Russell HR, McKinnon PJ. Polynucleotide kinase-phosphatase enables neurogenesis via multiple DNA repair pathways to maintain genome stability. EMBO J. 2015-08-19 [PMID: 26290337] (WB, Mouse)





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Products Related to NBP1-87257

NBP1-87257PEP PNK Recombinant Protein Antigen

HAF008 Goat anti-Rabbit IgG Secondary Antibody [HRP]

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

NBP2-24891 Rabbit IgG Isotype Control

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