

Product Datasheet

MICALL1 Antibody H00085377-B01P

Unit Size: 0.05 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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H00085377-B01P

MICALL1 Antibody

Product Information	
Unit Size	0.05 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Isotype	IgG
Purity	Protein A purified
Buffer	PBS (pH 7.4)
Product Description	
Host	Mouse
Gene ID	85377
Gene Symbol	MICALL1
Species	Human, Mouse, Rat
Specificity/Sensitivity	MICAL-L1 - MICAL-like 1,
Immunogen	MICAL-L1 (AAI48805.1, 1 a.a. - 863 a.a.) full-length human protein. MAGPRGALLAWCRRQCEGYRGVEIRDLSSSFRDGLAFCAILHRHRPDLLDFDS LSKDNVFNRLAFEVAEKELGIPALLDPNDMVSMSPDCLSIMTYVSQYYNHF CSPGQAGVSPPRKGLAPCSPSPVAPTPVEPEDVAQGEELSSGSLSEQGTGQT PSSTCAACQQHVHLVQRYLADGRLYHRHCFRCRRCSTLLPGAYENGPEEGT FVCAEHCARLGPGRSGTRPGPFSSQPKQQHQQQLAEDAQKDVPGGGPSSAP AGAEADGPKASPEARPIPTKPRVPGKLQELASPPAGRPTPAPRKASESTTPA PPTPRRSSLQQENLVEQAGSSSLVNGRLHELPVPKPRGTPKPSGTPAPRK DPPWITLVQAEPKKKPAPLPPSSSPGPPSQDSRQVENGTEEVAQPSPTASLE SKPYNPFEEEEEDKEEEAPAAPSLATSPALGHPESTPKSLHPWYGITPTSSPKT KKRPAPRAPSASPLALHASRLSHSEPPSATPSPALSVESLSSESASQTAGAELL EPPAVPKSSSEPAVHAPGTPGNPVSLSSTNSSLASSGELVEPRVEQMPQASPG LAPRTRGSSGPQPAKPCSGATPTPLLLVGDRSPVSPGSSSPQLQVKSSCKE NPFNRKPSPAASPATKKATKGSKPVRPPAPGHGFPLIKRKVQADQYIPEEDIHG EMDTIERRLDALEHRGVLLLEEKLRGGLNEGREDMLVDWFKLIHEKHLLVRRE SELIYVFKQQNLEQRQADV EYELRCLLNKPEKDWTEEDRAREKVLQMQLVTLIE QRNAIINCLDEDRQREEEEDKMLEAMIKKKEFQREAEPEGKKKKGKFKTMKMLK LLGNKRDAKSKSPRDKS
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
Applications	Western Blot, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:100-1:2000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/Immunofluorescence, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin 1:400

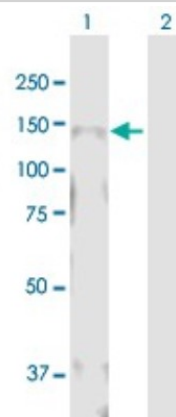
Application Notes

Antibody reactive against Recombinant Protein with GST tag on ELISA and Western Blot and also on transfected lysate in western blot. GST tag alone is used as a negative control. Antibody is also useful for Immunohistochemistry on paraffin-embedded sections. Immunocytochemistry/Immunofluorescence, Immunohistochemistry and Immunoprecipitation were reported in scientific literature, but Immunocytochemistry/Immunofluorescence has been experiencing lot-to-lot variations. Use in Immunocytochemistry/immunofluorescence reported in scientific literature (PMID: 24019528).

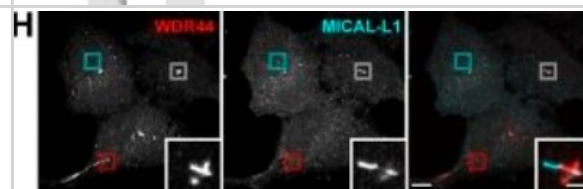


Images

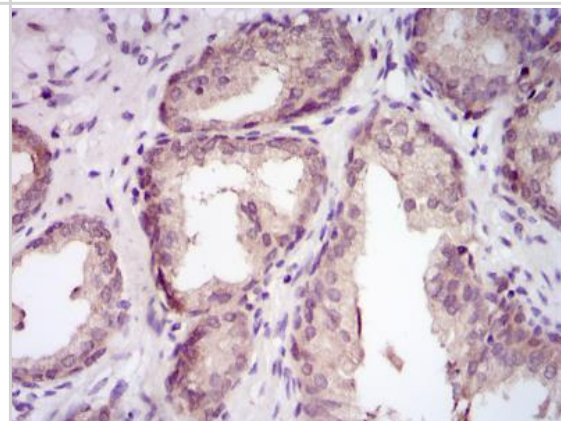
Western Blot: MICALL1 Antibody [H00085377-B01P] - Analysis of MICALL1 expression in transfected 293T cell line by MICALL1 polyclonal antibody. Lane 1: MICAL-L1 transfected lysate(94.93 KDa). Lane 2: Non-transfected lysate.



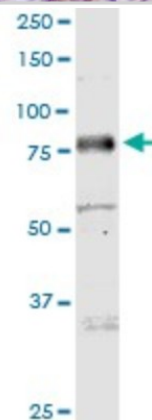
Immunocytochemistry/Immunofluorescence: MICALL1 Antibody [H00085377-B01P] - GRAF/WDR44 label a subset of tubular endosomes. Insets show magnifications of the boxed areas. Scale bars: 10 μ m; scale bars of insets: 2 μ m. Image collected and cropped by CiteAb from the following publication (<https://rupress.org/jcb/article/doi/10.1083/jcb.201811014/151714/GRAF2-WDR44-and-MICAL1-mediate-Rab81011dependent>) licensed under a CC-BY licence.



Immunohistochemistry-Paraffin: MICALL1 Antibody [H00085377-B01P] - IHC staining of MICALL1 in human prostate cancer using DAB with hematoxylin counterstain.



Western Blot: MICALL1 Antibody [H00085377-B01P] - Analysis of MICALL1 expression in HepG2.



Publications

Lucken-Ardjomande HASler S, Vallis Y, Pasche M, McMahon HT GRAF2, WDR44, and MICAL1 mediate Rab8/10/11-dependent export of E-cadherin, MMP14, and CFTR delta, F508 J. Cell Biol. May 4 2020 12:00AM [PMID: 32344433] (WB, Human)

Fukuda M Rab10 regulates tubular endosome formation through KIF13A/B motors. J Cell Sci. 2019 Feb 19 [PMID: 30700496]

Siddiqa A, Massimi P, Pim D, Banks L Diverse Papillomavirus Types Induce Endosomal Tubulation Front Cell Infect Microbiol May 28 2019 12:00AM [PMID: 31192164] (ICC/IF, Human)

Xie S, Reinecke JB, Farmer T et al. Vesicular trafficking plays a role in centriole disengagement and duplication Mol. Biol. Cell Nov 1 2018 12:00AM [PMID: 30188792] (WB, Human)

Finicle BT, Ramirez MU, Liu G et al. Sphingolipids inhibit endosomal recycling of nutrient transporters by inactivating ARF6 J. Cell. Sci. Jun 25 2018 12:00AM [PMID: 29848659] (Human)

Mukadam AS, Breusegem SY, Seaman MNJ. Analysis of novel endosome-to-Golgi retrieval genes reveals a role for PLD3 in regulating endosomal protein sorting and amyloid precursor protein processing Cell. Mol. Life Sci. 2018 Jan 24 [PMID: 29368044] (WB, Human)

Siddiqa A, Massimi P, Pim D et al. Human Papillomavirus 16 infection induces VAP-dependent endosomal tubulation J. Virol. 2018 Jan 10 [PMID: 29321327] (Human)

Vidal-Quadras M, Holst MR, Francis MK et al. Endocytic turnover of Rab8 controls cell polarization. J. Cell. Sci. Mar 15 2017 12:00AM [PMID: 28137756] (WB, Human)

Bahl K, Xie S, Spagnol G et al. EHD3 is Required for Tubular Recycling Endosome Stabilization and an Asparagine-Glutamic Acid Residue Pair within its EH Domain Dictates its Selective Binding to NPF Peptides. J. Biol. Chem. May 4 2016 12:00AM [PMID: 27189942] (Human)

Kobayashi H, Fukuda M. Rab35 establishes the EHD1-association site by coordinating two distinct effectors during neurite outgrowth. J Cell Sci. 2013 Apr 09 [PMID: 23572513]

Kobayashi H, Etoh K, Ohbayashi N, Fukuda M. Rab35 promotes the recruitment of Rab8, Rab13 and Rab36 to recycling endosomes through MICAL-L1 during neurite outgrowth. Biol Open. 2014 Aug 01 [PMID: 25086062]

Xie S, Naslavsky N, Caplan S. Diacylglycerol kinase alpha regulates tubular recycling endosome biogenesis and major histocompatibility complex class I recycling. J Biol Chem. 2014 Sep 23 [PMID: 25248744]

More publications at <http://www.novusbio.com/H00085377-B01P>

Procedures

Immunohistochemistry-Paraffin Protocol Specific for H00085377-B01P: MICALL1 Antibody

Materials

- 1) 1 Phosphate buffered saline (pH 7.6): NaCl 137mmol/L, KCl 2.7mmol/L, Na₂HPO₄ 4.3mmol/L, KH₂PO₄ 1.4 mmol/L
- 2) Citrate buffer, 0.01 M, pH6.0, Sodium Citrate 3g, Citric acid 0.4g
- 3) 3% Hydrogen peroxide
- 4) Primary antibody
- 5) Blocking serum (normal serum)
- 6) Biotinylated secondary antibody
- 7) DAB staining kit

Methods

1. Dewax and hydration of slides using xylene and EtOH:

Dry slides for 20 min in a 60 C oven

Add Xylene, 2 x 10 min

100%, 95%, 80%, and 70% EtOH, 5 min each EtOH concentration

Rinse in PBS, 5'

- 2 Antigen retrieval method (only for paraffin slides)

- 1a. High-pressure antigen retrieval procedure (recommended method)

Place slides in a glass slide holder (ensure that the slide holder is completely filled with slides, slides without sections if necessary, to ensure even heating. The entire slide holder is immersed in 1000 ml of Citrate buffer (0.01M, pH6.0) within a pressure cooker

Once steam is produced, and ONLY when steam is visible, from the pressure cooker (usually 15-20 min), the required high-pressure will have been reached, and slides will be incubated for 2 min.

Turn off heat, and allow buffer and slides to cool to room temperature

Slides are then rinsed in PBS for 5 minutes

2. Add 3% hydrogen peroxide solution, 10'at RT, then PBS, 3X5'

3. Normal blocking serum, 20'at RT

4. Incubate with Primary Ab, 4C overnight or 1.5 hours at 37C

5. Rinse with PBS, 3 X 5' each rinse

6. Add Biotin-conjugated second antibody, 10'at RT

7. Rinse with PBS, 3 X 5' each rinse

8. Add Streptavidin-Peroxidase, 10'at RT

9. Rinse with PBS, 3 X 5' each rinse

10. Staining with DAB solution, 2-5'under microscope

11. Stop the reaction by washing in tap water

12. Counterstain in Haematoxylin for 3-5 minutes

13. 75%, 80%, 95% and 100% ethanol, 5x2', xylene 2 x 10'





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Products Related to H00085377-B01P

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97019-5mg	Mouse IgG Isotype Control
NBP1-81386PEP	MICALL1 Recombinant Protein Antigen

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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