

Product Datasheet

Meckelin Antibody NBP1-06590

Unit Size: 0.2 ml

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

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NBP1-06590**Meckelin Antibody**

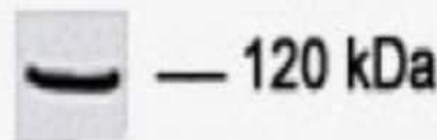
Product Information	
Unit Size	0.2 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Reconstitution Instructions	Lyophilized powder, reconstituted in distilled water.
Isotype	IgG
Purity	Unpurified
Buffer	Antiserum

Product Description	
Host	Rabbit
Gene ID	91147
Gene Symbol	TMEM67
Species	Human, Rat
Reactivity Notes	Rat reactivity reported in scientific literature (PMID: 23516626). Predicted to cross react with many other species like Guinea pig, Sheep, cat, dog, Porcine due to sequence identity.
Specificity/Sensitivity	Reacts specifically with human 111 kDa protein
Immunogen	Synthetic peptide derived from Cter domain of human Meckelin protein

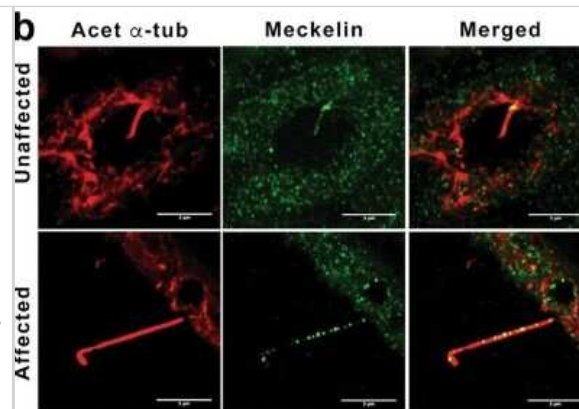
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:100-1:1000, Immunohistochemistry 1:50-1:200, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500, Immunohistochemistry-Frozen 1:10-1:500
Application Notes	IHC-Frozen, ICC/IF applications reported in scientific literature (PMID: 23516626)

Images

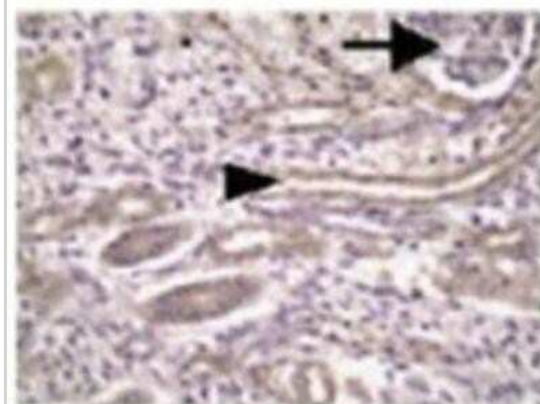
Western Blot: Meckelin Antibody [NBP1-06590] - Immunodetection of Meckelin (120kDa) in whole cell extracts of HEK293 cells.



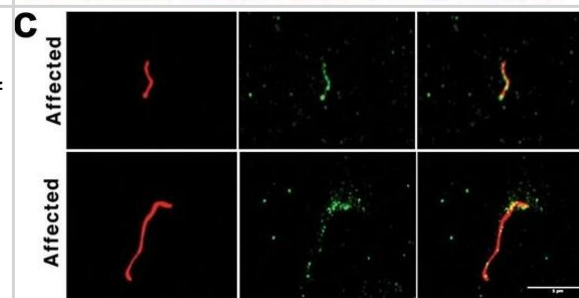
Immunohistochemistry: Meckelin Antibody [NBP1-06590] - Confocal maximum projection of acetylated alpha-tubulin (red) and meckelin (green) labelling in sections from unaffected and affected kidneys. In unaffected kidneys, meckelin was present within the cytoplasm of the epithelial cells and strongly localised to the base of the cilium. In contrast, meckelin was distributed along the length of the ciliary axonemes of affected cyst-lining cells. Meckelin distribution within the cytoplasm of cyst lining cells was similar to observations in unaffected epithelia. Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/28487520/>) licensed under a CC-BY license.



Immunohistochemistry-Paraffin: Meckelin Antibody [NBP1-06590] - Staining of kidney tissue section with Meckelin Antibody (NBP1-06590).



Immunocytochemistry/ Immunofluorescence: Meckelin Antibody [NBP1-06590] - Meckelin expression in unaffected & affected lamb kidney epithelial cells & primary cilia. (a, left) Immunoblot showing expression of meckelin (~100 KDa) in cultured epithelial cells from an unaffected lamb kidney, & an affected lamb kidney. β -actin indicates equivalent protein loading in each lane. (a, right) Quantification of the meckelin band in the immunoblot, normalised to the loading control, shows no significant difference in relative protein expression. (b) Confocal maximum projection of acetylated α -tubulin (red) & meckelin (green) labelling in sections from unaffected & affected kidneys. In unaffected kidneys, meckelin was present within the cytoplasm of the epithelial cells & strongly localised to the base of the cilium. In contrast, meckelin was distributed along the length of the ciliary axonemes of affected cyst-lining cells. Meckelin distribution within the cytoplasm of cyst lining cells was similar to observations in unaffected epithelia (c) Acetylated α -tubulin (red) & meckelin (green) labelling on putative ciliary fragments located in the cyst lumen of affected kidneys (yellow indicates co-localisation in the merged image). Numerous smaller particles contained in the cyst luminal contents were also labeled with meckelin, but were not labeled with acetylated α -tubulin. Scale bars = 5 μ m. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/28487520/>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Stayner C, Poole C A et al. An ovine hepatorenal fibrocystic model of a Meckel-like syndrome associated with dysmorphic primary cilia and TMEM67 mutations. Sci Rep 2017-09-05 [PMID: 28487520] (IF/IHC, Human)

Tiwari S, Hudson S, Gattone VH 2nd et al. Meckelin 3 Is Necessary for Photoreceptor Outer Segment Development in Rat Meckel Syndrome PLoS One 2013-01-01 [PMID: 23516626] (ICC/IF, IHC-Fr, Rat)



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Products Related to NBP1-06590

NBP1-06590PEP	Meckelin Antibody Blocking Peptide
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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