

Product Datasheet

Myosin 1B Antibody - BSA Free NBP1-87739

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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NBP1-87739

Myosin 1B Antibody - BSA Free

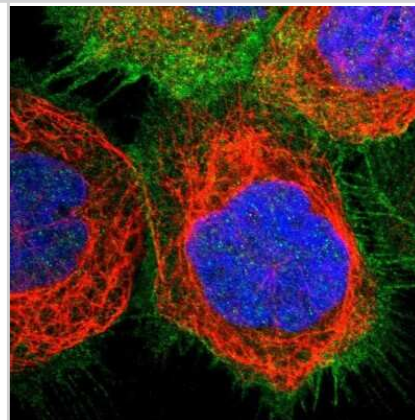
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description	
Host	Rabbit
Gene ID	4430
Gene Symbol	MYO1B
Species	Human, Mouse, Rat, Chicken
Reactivity Notes	Chicken reactivity reported in scientific literature (PMID: 25812521). Rat reactivity reported in the scientific literature (PMID: 26940917). Mouse reactivity reported from a verified customer review.
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: LLNKLKLERDFSRYNLSDLKAVNGVDDAANFRTVRNAMQIVGFMDHEAESV LAVVAVLKLGNIKPKESRVNGLDESKIKDKNELKEICELTGIDQSVLERAFSFR TVEAKQEKVSTTLNVA

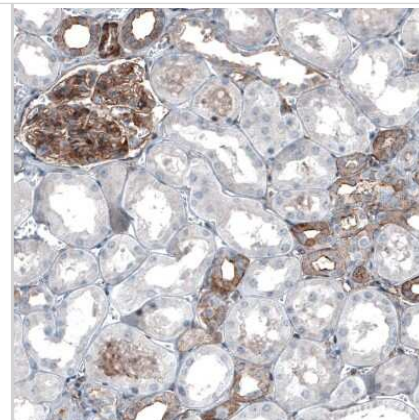
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot Validated from a verified customer review., Immunohistochemistry 1:50 - 1:200, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:50 - 1:200
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

Images

Immunocytochemistry/Immunofluorescence: Myosin 1B Antibody [NBP1-87739] - Staining of human cell line A-431 shows positivity in plasma membrane and cell junctions. Antibody staining is shown in green.



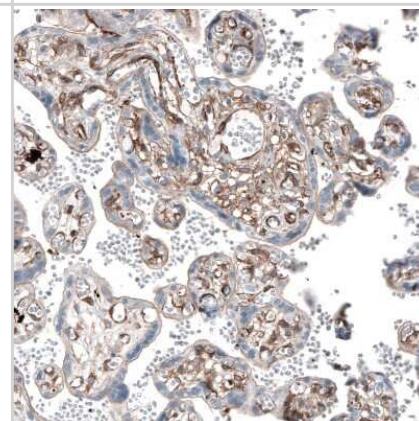
Immunohistochemistry-Paraffin: Myosin 1B Antibody [NBP1-87739] - Staining of human kidney shows moderate membranous positivity in cells in glomeruli and in cells in tubules.



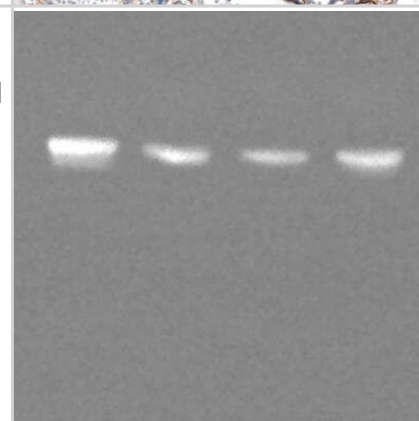
Western Blot: Myosin 1B Antibody [NBP1-87739] - (B) Western blot of Myo1b from freshly isolated ATII cells and ATII cells after 2 days of culture (0 and 2, respectively) to demonstrate expression of Myo1b in ATII cells. Ponceau S staining was used to control for equal protein loading (M, marker). Image collected and cropped by CiteAb from the following publication (<https://jcs.biologists.org/lookup/doi/10.1242/jcs.181313>) licensed under a CC-BY license.



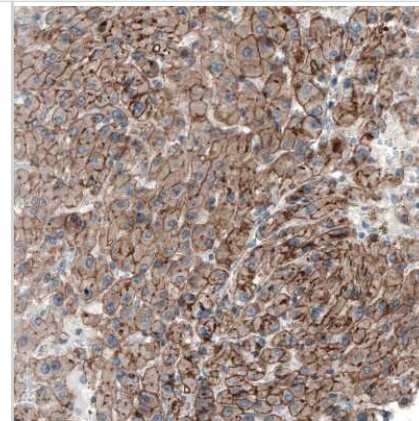
Immunohistochemistry-Paraffin: Myosin 1B Antibody [NBP1-87739] - Staining of human placenta shows moderate membranous positivity in trophoblastic cells.



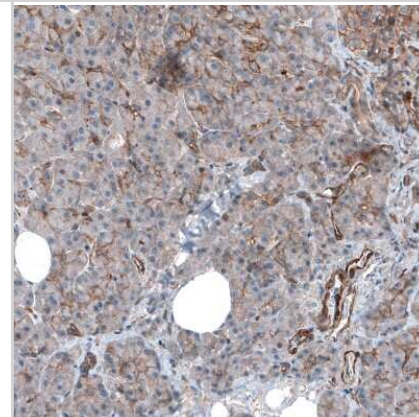
Western Blot: Myosin 1B Antibody [NBP1-87739] - Lysates of mouse whole brain in different developmental stages. Antibody at 1:1000. Molecular weight of the protein is around 130-140 KDa. Image submitted by a verified customer review



Immunohistochemistry-Paraffin: Myosin 1B Antibody [NBP1-87739] - Staining of human liver shows moderate membranous positivity in hepatocytes.

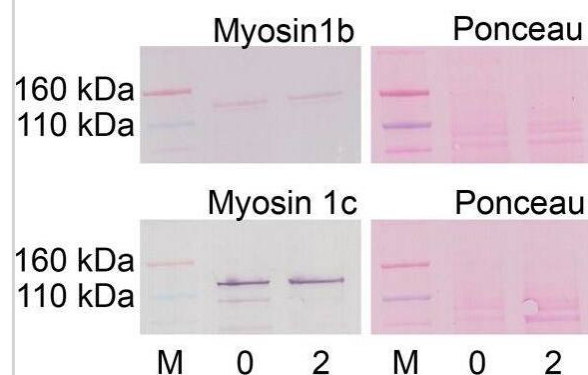


Immunohistochemistry-Paraffin: Myosin 1B Antibody [NBP1-87739] - Staining of human pancreas shows moderate membranous positivity in exocrine glandular cells.



Western Blot: Myosin 1B Antibody [NBP1-87739] - Expression & localization of Myo1b & Myo1c in ATII cells. (A) Semi-quantitative RT-PCR showed that Myo1b & Myo1c are among the highest expressed Myo1 isoforms in ATII cells. Data (mean±s.e.m.) obtained from three cell isolations & three experiments per isolation are shown relative to the expression of the housekeeping gene HMBS. Day 0, freshly isolated cells; Day 2, after 2 days in culture. (B) Western blot of Myo1b & Myo1c from freshly isolated ATII cells & ATII cells after 2 days of culture (0 & 2, respectively) to demonstrate expression of Myo1b & Myo1c in ATII cells. Ponceau S staining was used to control for equal protein loading (M, marker). (C) Colocalization of anti Myo1b & Myo1c staining with fused secretory vesicles marked by ABCa3 & phalloidin immunostaining. The ABCa3 transporter is a marker for secretory vesicle membrane in ATII cells. After ATP stimulation, some vesicles fused with the plasma membrane & acquired an actin coat, which was labeled by phalloidin staining (arrow). Scale bars: 10 μ m. Insets show the enlarged view of the fused lamellar bodies. Scale bars: 1 μ m. Image collected & cropped by CiteAb from the following publication (<https://journals.biologists.com/jcs/article/doi/10.1242/jcs.181313/260175/The-role-of-myosin-1c-and-myosin-1b-for-surfactant>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

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Publications

Revenu C, Lebreton C, Cannata Serio M et Al. Myosin 1b regulates intestinal epithelial morphogenesis via interaction with UNC45A Cell Rep 2024-12-03 [PMID: 39636728]

Zhao G, Liu S, Arun S et al. A tubule-sheet continuum model for the mechanism of nuclear envelope assembly Developmental cell 2023-04-24 [PMID: 37098350]

Kittelberger N, Breunig M, Martin R et al. The role of myosin 1c and myosin 1b for surfactant exocytosis J. Cell. Sci. 2016-03-03 [PMID: 26940917] (WB, Rat)

Komaba S, Coluccio LM. Myosin 1b Regulates Amino Acid Transport by Associating Transporters with the Apical Plasma Membrane of Kidney Cells. PLoS One 2015-01-01 [PMID: 26361046] (IF/IHC, Mouse)

Emil Rozbicki, Manli Chuai, Antti I. Karjalainen et al. Myosin-II-mediated cell shape changes and cell intercalation contribute to primitive streak formation. Nature Cell Biology 2015-01-01 [PMID: 25812521] (IF/IHC, Chicken)





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Products Related to NBP1-87739

NBP1-87739PEP	Myosin 1B 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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