Product Datasheet

Myosin VB Antibody
NBP1-87746

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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Publications: 15

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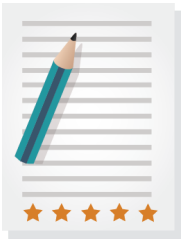
Updated 11/9/2023 v.20.1



NBP1-87746

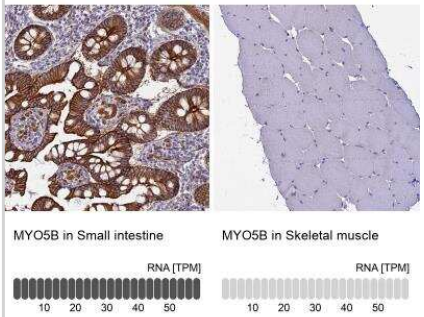
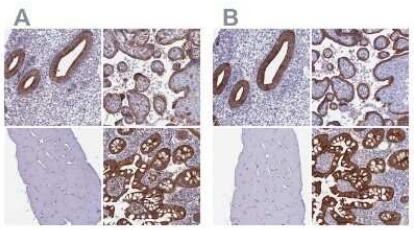
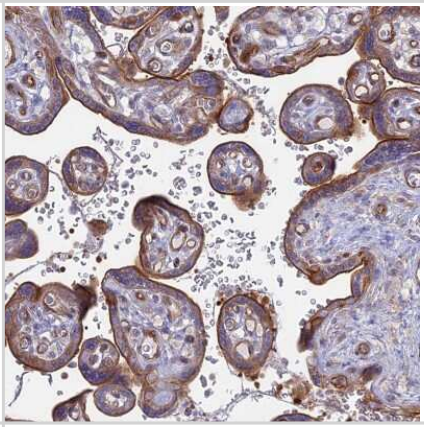
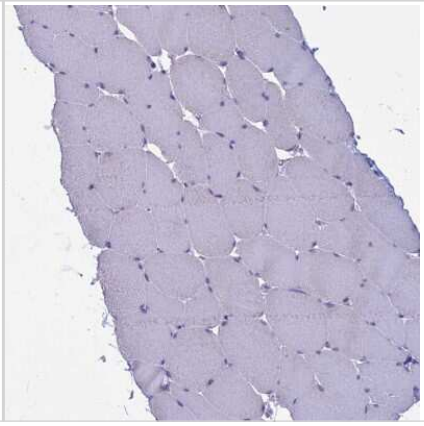
Myosin VB Antibody

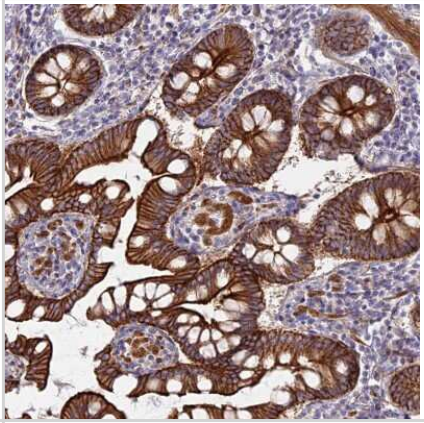
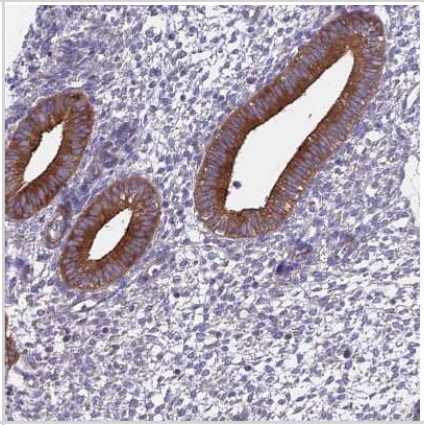
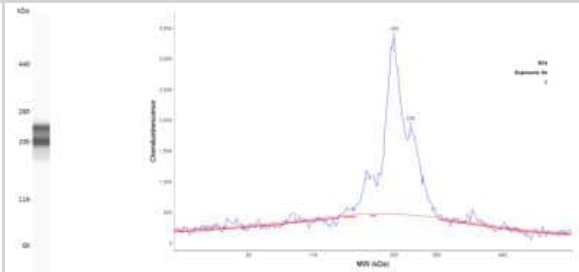
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium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

Product Description	
Host	Rabbit
Gene ID	4645
Gene Symbol	MYO5B
Species	Human, Mouse, Rat
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 26201991). Use in Rat reported in scientific literature (PMID:31757887).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: NLMKKELEEERSRYQNLVKEYSQLEQRYDNLRDEMTIIKQTPGHRRNPSNQSS LESDSNYPSISTSEIGDTEDALQQVEEIGLEKAAMDMTVFLK

Product Application Details	
Applications	Western Blot, Simple Western, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Knockout Validated
Recommended Dilutions	Western Blot -Reported in scientific literature (PMID: 27229121), Simple Western 1:100, Immunohistochemistry 1:200 - 1:500, Immunocytochemistry/Immunofluorescence -Reported in scientific literature (PMID: 27229121) , Immunohistochemistry-Paraffin 1:200 - 1:500, Knockout Validated -Validation (PMID: 31664880)
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. Separated by Size-Wes, Sally Sue/Peggy Sue.

Images

Immunohistochemistry-Paraffin: Myosin VB Antibody [NBP1-87746] - Staining in human small intestine and skeletal muscle tissues . Corresponding MYO5B RNA-seq data are presented for the same tissues.	
Immunohistochemistry-Paraffin: Myosin VB Antibody [NBP1-87746] - Staining of human endometrium, placenta, skeletal muscle and small intestine using Anti-MYO5B antibody NBP1-87746 (A) shows similar protein distribution across tissues to independent antibody NBP1-87747 (B).	
Immunohistochemistry-Paraffin: Myosin VB Antibody [NBP1-87746] - Staining of human placenta shows moderate to strong cytoplasmic positivity in trophoblastic cells.	
Immunohistochemistry-Paraffin: Myosin VB Antibody [NBP1-87746] - Staining of human skeletal muscle shows no positivity in myocytes as expected.	

Immunohistochemistry-Paraffin: Myosin VB Antibody [NBP1-87746] - Staining of human small intestine shows moderate to strong cytoplasmic positivity in glandular cells.	
Immunohistochemistry-Paraffin: Myosin VB Antibody [NBP1-87746] - Staining of human endometrium shows strong cytoplasmic positivity in glandular cells.	
Simple Western: Myosin VB Antibody [NBP1-87746] - Analysis in RT4 at 0.2 mg/mL.	

Publications

Leijnse N, Barooji YF, Arastoo MR et al. Filopodia rotate and coil by actively generating twist in their actin shaft Nature Communications 2022-03-28 [PMID: 35347113] (B/N)

Gromova KV, Thies E, Janiesch PC et al. The kinesin Kif21b binds myosin Va and mediates changes in actin dynamics underlying homeostatic synaptic downscaling Cell reports 2023-07-25 [PMID: 37418322] (WB, Mouse)

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] (WB, Human)

Engevik KA, Engevik MA, Engevik AC Bioinformatics reveal elevated levels of Myosin Vb in uterine corpus endometrial carcinoma patients which correlates to increased cell metabolism and poor prognosis PloS one 2023-01-20 [PMID: 36662766] (IHC-P, Human)

Ahsan MK, Dos Reis DC, Barbieri A et al. Loss of Serum Glucocorticoid-Inducible Kinase 1 SGK1 Worsens Malabsorption and Diarrhea in Microvillus Inclusion Disease (MVID) Journal of clinical medicine 2022-07-19 [PMID: 35887942] (IHC-P, Mouse)

Sakai T, Choo Y, Sato O et al. Myo5b Transports Fibronectin-Containing Vesicles and Facilitates FN1 Secretion from Human Pleural Mesothelial Cells International Journal of Molecular Sciences [PMID: 35563212]

Li Q, Zhou Z, Sun Y et al. A Functional Relationship Between UNC45A and MYO5B Connects Two Rare Diseases With Shared Enteropathy Cellular and molecular gastroenterology and hepatology 2022-04-11 [PMID: 35421597] (ICC/IF)

Schneeberger, K, Vogel, G F Et al. An inducible mouse model for microvillus inclusion disease reveals a role for myosin Vb in apical and basolateral trafficking. Proc Natl Acad Sci U S A 2015-10-06 [PMID: 26392529] (WB, Mouse)

Royo M, Gutierrez Y et al. A retention-release mechanism based on RAB11FIP2 for AMPA receptor synaptic delivery during long-term potentiation. J Cell Sci 2019-12-16 [PMID: 31757887] (ICC/IF, Rat)

Engevik AC, Coutts AW, Kaji I et al. Editing Myosin VB Gene to Create Porcine Model of Microvillus Inclusion Disease, With Microvillus-Lined Inclusions and Alterations in Sodium Transporters Gastroenterology 2020-02-26 [PMID: 32112796]

Forteza R, Ahsan MK, CartOn-GarcIa F et al. Glucocorticoids and Myosin5b loss-of-function induce heightened PKA signaling in addition to membrane traffic defects Mol. Biol. Cell 2019-10-30 [PMID: 31664880] (KO, Human, Mouse)

Xu, W;Gulvady, AC;Goreczny, GJ;Olson, EC;Turner, CE; Paxillin-dependent regulation of apical-basal polarity in mammary gland morphogenesis Development 2019-04-09 [PMID: 30967426] (WB, Mouse)

More publications at http://www.novusbio.com/NBP1-87746

Novus Biologicals USA
10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada
21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd
19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information
www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP1-87746

NBP1-87746PEP	Myosin VB 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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