Product Datasheet

myosin X Antibody 22430002-0.1mg

Unit Size: 0.1 mg

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



Publications: 16

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22430002-0.1mg

myosin X Antibody

Product Information	
Unit Size	0.1 mg
Concentration	Please see the 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	No Preservative
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	20mM Potassium Phosphate (pH 7.0) and 0.15M NaCl
Product Description	
Host	Rabbit
Gene ID	4651
Gene Symbol	MYO10
Species	Human, Mouse
Reactivity Notes	Human. mouse reactivity reported in scientific literature (PMID: 24270889)
Specificity/Sensitivity	This product is specific for Human Myosin 10.
Immunogen	This antibody is specific for the Middle Region of the target protein (NM_012334).
Notes	Manufactured by SDIX's proprietary Genomic Antibody Technology™. GAT FAQs.
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:500-1:2000, ELISA 1:100-1:2000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:800, Immunohistochemistry- Paraffin 1:200
Application Notes	This antibody is useful in ELISA, Immunofluorescence, Immunohistochemistry- Paraffin and Western Blot.

Images

Western Blot: myosin X Antibody [22430002] - Detection of Myo10 in HeLa cells at a dilution of 1:800 with 1 mg/mL stock. The predicted molecular weight of MYO10, based on the amino acid sequence, is 237 kD. MYO10 appeared at approximately 250 kD on this gel.





HOXA5

Mock

Immunocytochemistry/Immunofluorescence: myosin X Antibody [22430002] - The effect of HOXA5 on single cell migration. The median С D speed was calculated by tracking the movement of individual cells with around 25 cells per assay condition in three independent experiments. P<0.05 compared with the mock control. Representative photographs of immunofluorescence staining of endogenous F-actin in stably expressing HOXA5 or control vector cells (Mock). Cells were fixed and stained for 0 Myosin-X. Nuclei were counterstained with DAPI. Merge images were also shown. Scale bars, 20 um. Image collected and cropped by CiteAb from the following publication (https://dx.plos.org/10.1371/journal.pone.0124191), licensed under a CC-BY license. Immunohistochemistry: myosin X Antibody [22430002] - Most of the normal tissues showed moderate cytoplasmic positivity. Strong staining was observed in stomach, rectum, exocrine pancreas, urothelium and in placenta. Hepatocytes were negative. Malignant tissues exhibited similar staining properties as normal cells. Occasional tumor cases displayed strong cytoplasmic immunoreactivity. Most cases of malignant lymphoma, testicular and prostate cancers were negative or weakly stained. Image and statement courtesy of the Human Protein Atlas (HPA). Immunocytochemistry/Immunofluorescence: myosin X Antibody [22430002] - staining of Actin at a dilution of 1:800. Image courtesy of MM DiVito and RE Cheney, Department of Cell and Molecular Physiology, University of North Carolina at Chapel Hill. Actin Immunocytochemistry/Immunofluorescence: myosin X Antibody [22430002] - Myosins are actin-based motor molecules with ATPase activity. MYO10 plays a role in regions of dynamic actin and is presumed to serve in intracellular movements. Immunofluorescence staining of Myo10 at a dilution of 1:800 with 1.0 mg/mL stock. Image courtesy of MM DiVito and RE Cheney, Department of Cell and Molecular Physiology, University of North Carolina at Chapel Hill.

Myo10

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Immunocytochemistry/Immunofluorescence: myosin X Antibody [22430002] - staining of Myo10 at a dilution of 1:800 with 1.0mg/mL stock overlapped with immunofluorescence staining of Actin at a dilution of 1:800. Image courtesy of MM DiVito and RE Cheney, Department of Cell and Molecular Physiology, University of North Carolina at Chapel Hill.







Publications

Popovi? A, Miihkinen M, Ghimire S et al. Myosin-X recruits lamellipodin to filopodia tips Journal of cell science 2023-03-01 [PMID: 36861887] (WB, Human)

Adebowale K, Gong Z, Hou JC et al. Enhanced substrate stress relaxation promotes filopodia-mediated cell migration Nature materials 2021-04-19 [PMID: 33875851]

Muscarella AM, Dai W, Mitchell PG et al. Unique cellular protrusions mediate breast cancer cell migration by tethering to osteogenic cells NPJ breast cancer 2020-09-07 [PMID: 32964116] (ICC/IF, Human, Mouse)

Miihkinen M, GrOnloh M, Vihinen H et al. Myosin-X is required for integrin activation at filopodia tips bioRxiv 2020-05-06 (WB, Human)

Young LE, Latario CJ, Higgs HN. Roles for Ena/VASP proteins in FMNL3-mediated filopodial assembly. J. Cell. Sci. 2018-10-29 [PMID: 30373894] (WB, Human)

Lehtimaki JI, Fenix AM, Kotila TM et al. UNC-45a promotes myosin folding and stress fiber assembly. J. Cell Biol. 2017-10-20 [PMID: 29055011] (WB)

Margiotta A, Progida C, Bakke O, Bucci C. Rab7a regulates cell migration through Rac1 and vimentin. Biochim Biophys Acta 2017-02-01 [PMID: 27888097] (Human)

Jacquemet G, Baghirov H, Georgiadou M et al. L-type calcium channels regulate filopodia stability and cancer cell invasion downstream of integrin signalling. Nat Commun. 2016-12-02 [PMID: 27910855] (WB, Human)

Garrison C, Lastwika K, Zhang Y et al. Proteomic Analysis, Immune Dysregulation, and Pathway Interconnections With Obesity J Proteome Res. 2017-01-06 [PMID: 27769113] (MiAr)

Details:

Analysis is performed on plasma proteomic data to identify how obesity can alter pathways and to highlight the risk factor for disease in subjects with a high body mass index.

Rho JH, Lampe PD. High-throughput screening for native autoantigen-autoantibody complexes using antibody microarrays J Proteome Res. 2013-05-03 [PMID: 23541305] (MiAr)

Details:

A novel method using antibody microarrays is used to detect autoantibody-antigen complexes that can potentially be useful for detection and characterization of diseases.

Osswald M, Jung E, Sahm F et al. Brain tumour cells interconnect to a functional and resistant network. Nature. 2015-12-03 [PMID: 26536111] (ICC/IF)

Wang Y, Brooks PJ, Jang JJ et al. Role of actin filaments in fusopod formation and osteoclastogenesis Biochim. Biophys. Acta 2015-04-12 [PMID: 25871908] (ICC/IF, Mouse)

More publications at http://www.novusbio.com/22430002

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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@biotechne.com Orders: nb-customerservice@bio-techne.com General: novus@novusbio.com

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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