Product Datasheet

Alpha Dystroglycan Antibody (2238)
NBP1-49634

Unit Size: 0.025 mg

Store at 4C.

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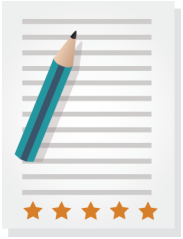
Publications: 4

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP1-49634

Updated 9/9/2025 v.20.1



NBP1-49634

Alpha Dystroglycan Antibody (2238)

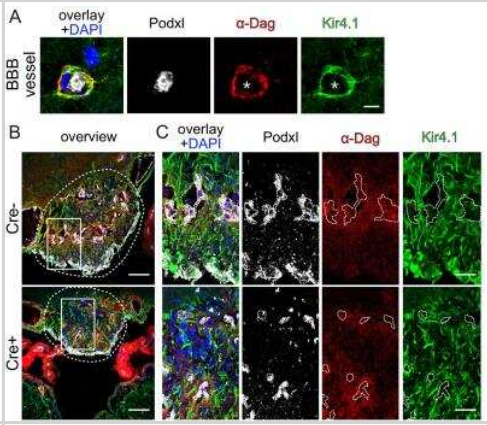
Product Information	
Unit Size	0.025 mg
Concentration	0.1 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	2238
Preservative	0.02% Sodium Azide
Isotype	IgG2b
Purity	Protein A or G purified
Buffer	0.2 um filtered solution in PBS and 0.1% BSA

Product Description	
Description	Novus Biologicals Mouse Alpha Dystroglycan Antibody (2238) (NBP1-49634) is a monoclonal antibody validated for use in IHC, WB and ICC/IF. Anti-Alpha Dystroglycan Antibody: Cited in 4 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	1605
Gene Symbol	DAG1
Species	Human, Mouse, Rat, Bovine, Rabbit
Reactivity Notes	Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Additional Mouse on Mouse blocking steps may be required for IHC and ICC experiments. Please contact Technical Support for more information.
Specificity/Sensitivity	The monoclonal antibody 2238 is specific for a glycoepitope on brain bovine alpha-dystroglycan, which is absent on alpha-dystroglycan expressed in all other tissues.
Immunogen	Monoclonal antibody 2238 recognizes a glycoepitope unique to brain alpha-dystroglycan.

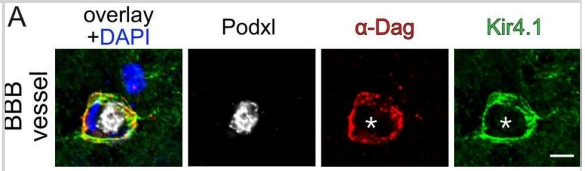
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunoassay, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:100-1:2000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 1:10-1:500, Immunoassay
Application Notes	This antibody works in Western Blot, Immunoassay and Immunohistochemistry-Paraffin WB:it recognizes alpha-DG as protein of ~130 kD, especially after enrichment of the lysates for dystroglycans Use in Immunocytochemistry/immunofluorescence reported in scientific literature (PMID 27015747)

Images

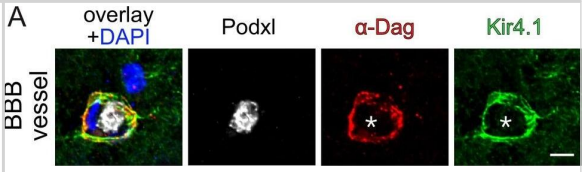
Immunohistochemistry: Alpha Dystroglycan Antibody (2238) [NBP1-49634] - Endothelial B-catenin GOF does not affect astrocytic endfoot polarization of a-dystroglycan (a-Dag) and Kir4.1 within the subfornical organ (SFO). Striatal BBB-vessel showing a polarized distribution of a-Dag and Kir4.1 in AC endfeet. Lumen is stained by Podxl (asterisk) (A). Coronal overview of the subfornical organ (SFO) (B); rectangular inset demarcates area for higher magnification in (C). Dashed lines outline SFO vessels. Scale bar show 2 um (A), 50 um (B), 10 um (C). Image collected and cropped by CiteAb from the following publication (elifesciences.org/articles/43818), licensed under a CC-BY license.



Endothelial β-catenin GOF does not affect astrocytic endfoot polarization of α-dystroglycan (α-Dag) and Kir4.1 within the subfornical organ (SFO).Striatal BBB-vessel showing a polarized distribution of α-Dag and Kir4.1 in AC endfeet. Lumen is stained by Podxl (asterisk) (A). Coronal overview of the subfornical organ (SFO) (B); rectangular inset demarcates area for higher magnification in (C). Dashed lines outline SFO vessels. Scale bar show 2 µm (A), 50 µm (B), 10 µm (C).



Immunocytochemistry/ Immunofluorescence: Alpha Dystroglycan Antibody (2238) [NBP1-49634] - Endothelial β-catenin GOF does not affect astrocytic endfoot polarization of α-dystroglycan (α-Dag) & Kir4.1 within the subfornical organ (SFO).Striatal BBB-vessel showing a polarized distribution of α-Dag & Kir4.1 in AC endfeet. Lumen is stained by Podxl (asterisk) (A). Coronal overview of the subfornical organ (SFO) (B); rectangular inset demarcates area for higher magnification in (C). Dashed lines outline SFO vessels. Scale bar show 2 µm (A), 50 µm (B), 10 µm (C). Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/30932814), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Hathazi D, Cox D, D'Amico A et al. INPP5K and SIL1 associated pathologies with overlapping clinical phenotypes converge through dysregulation of PHGDH Brain : a journal of neurology 2021-04-01 [PMID: 33792664] (IF/IHC, Human)

Benz, F;Wichitnaowarat, V;Lehmann, M;Germano, RF;Mihova, D;Macas, J;Adams, RH;Taketo, MM;Plate, KH;Guerit, S;Vanhollebeke, B;Liebner, S; Low wnt/beta-catenin signaling determines leaky vessels in the subfornical organ and affects water homeostasis in mice Elife 2019-04-01 [PMID: 30932814] (ICC/IF, Mouse)

Koeppen AH, Becker AB, Qian J et al. Friedreich Ataxia: Developmental Failure of the Dorsal Root Entry Zone. J. Neuropathol. Exp. Neurol. 2017-11-01 [PMID: 29044418] (Human)

Annese T, Corsi P, Ruggieri S et al. Isolation and characterization of neural stem cells from dystrophic mdx mouse. Exp. Cell Res. 2016-03-22 [PMID: 27015747] (WB, ICC/IF, Mouse)

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Products Related to NBP1-49634

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP2-27231	Mouse IgG2b Isotype Control (MPC-11)

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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