

Product Datasheet

NG2/MCSP Antibody (LHM 2) - Azide and BSA Free NBP2-80873

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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NBP2-80873

NG2/MCSP Antibody (LHM 2) - Azide and BSA Free

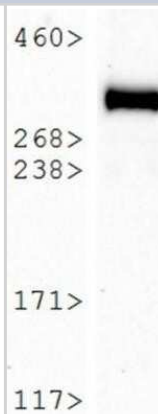
Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	LHM 2
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	Tris-Glycine, 0.15 M NaCl

Product Description	
Description	Novus Biologicals Knockout (KO) Validated Mouse NG2/MCSP Antibody (LHM 2) - Azide and BSA Free (NB100-2688) is a monoclonal antibody validated for use in IHC, WB, Flow, ICC/IF and IP. Anti-NG2/MCSP Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	1464
Gene Symbol	CSPG4
Species	Human
Immunogen	A 375P cells crude extract

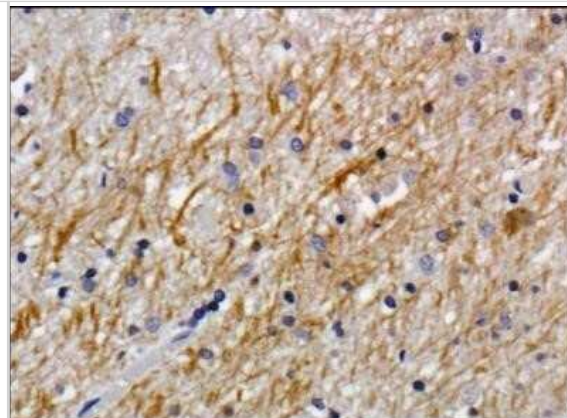
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Flow (Cell Surface), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation, Knockout Validated
Recommended Dilutions	Western Blot 1:1000, Flow Cytometry, Immunohistochemistry 1:200, Immunocytochemistry/ Immunofluorescence 1:100, Immunoprecipitation 1:10 - 1:100, Immunohistochemistry-Paraffin 1:200, Immunohistochemistry-Frozen 1:200, Flow (Cell Surface) 1 - 2.5 ug/ml, Knockout Validated
Application Notes	In WB a band can be seen at ~300 kDa.

Images

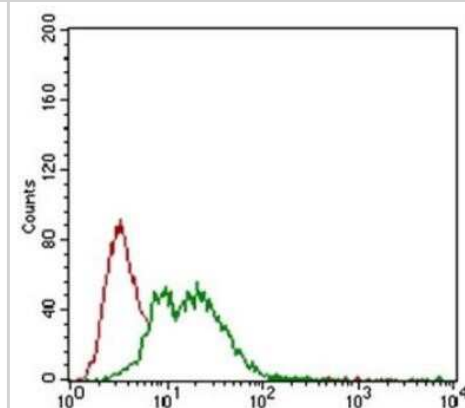
Western Blot: NG2/MCSP Antibody (LHM 2) - Azide and BSA Free [NBP2-80873] - Analysis of NG2 expression in HeLa whole cell lysate. Image from the standard format of this antibody.



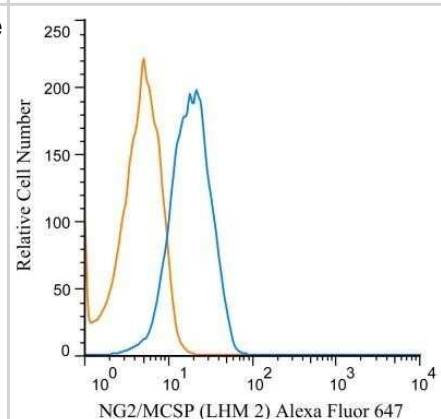
Immunohistochemistry: NG2/MCSP Antibody (LHM 2) - Azide and BSA Free [NBP2-80873] - Staining of NG2 in human brain using DAB with hematoxylin counterstain. Image from the standard format of this antibody.



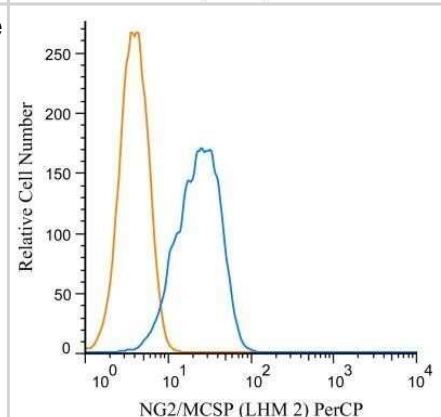
Flow Cytometry: NG2/MCSP Antibody (LHM 2) - Azide and BSA Free [NBP2-80873] - Antibody was tested at 1:400 in MCF7 cells using an Alexa Fluor 488 secondary (shown in green) alongside unstained cells (shown in red). Image from the standard format of this antibody.



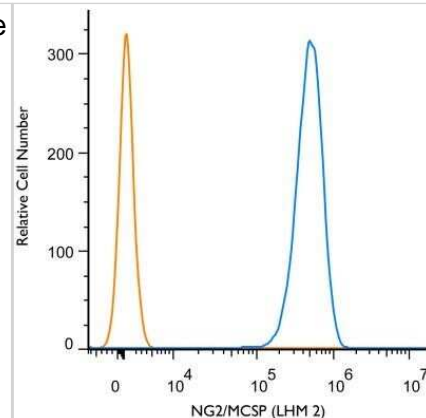
Flow (Cell Surface): NG2/MCSP Antibody (LHM 2) - Azide and BSA Free [NBP2-80873] - A cell surface stain was performed on U87MG cells with NG2/MCSP antibody (LHM 2) NB100-2688AF647 (blue) and a matched isotype control NBP2-27287AF647 (orange). Cells were incubated in an antibody dilution of 2 ug/mL for 20 minutes at room temperature. Both antibodies were directly conjugated to Alexa Fluor 647.



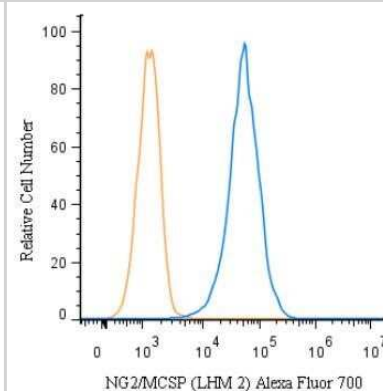
Flow (Cell Surface): NG2/MCSP Antibody (LHM 2) - Azide and BSA Free [NBP2-80873] - A cell surface stain was performed on U87MG cells with NG2/MCSP antibody (LHM 2) NB100-2688PCP (blue) and a matched isotype control NBP2-27287PCP (orange). Cells were incubated in an antibody dilution of 2.5 ug/mL for 20 minutes at room temperature. Both antibodies were directly conjugated to PerCP complex.



Flow (Cell Surface): NG2/MCSP Antibody (LHM 2) - Azide and BSA Free [NBP2-80873] - A surface stain was performed on A375 Cells with NG2/MCSP (LHM2) antibody NB100-2688 (blue) and a matched isotype control NBP1-43319 (orange). Cells were incubated in an antibody dilution of 1 ug/mL for 20 minutes at room temperature, followed by mouse F(ab)2 IgG (H+L) APC-conjugated secondary antibody (F0101B, R&D Systems). Image from the standard format of this antibody.

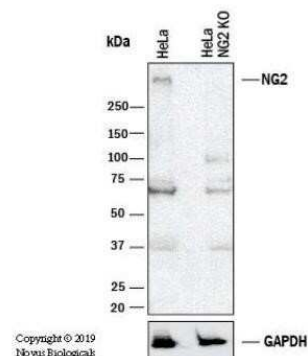


Flow Cytometry: NG2/MCSP Antibody (LHM 2) - Azide and BSA Free [NBP2-80873] - A cell surface stain was performed on SK-MEL-28 cells with NG2/MCSP antibody (LHM 2) NB100-2688AF700 (blue) and a matched isotype control (orange). Cells were incubated in an antibody dilution of 5 ug/mL for 20 minutes at room temperature. Both antibodies were directly conjugated to Alexa Fluor 700.



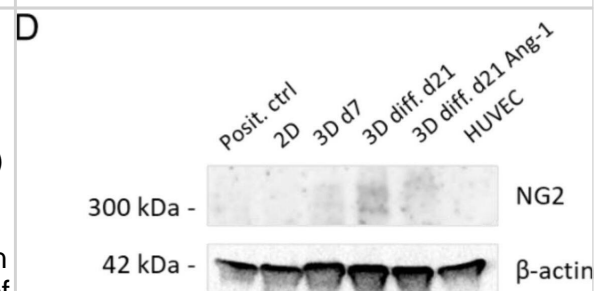
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Western Blot: NG2/MCSP Antibody (LHM 2) - Azide and BSA Free [NBP2-80873] - Western blot shows lysates of HeLa human cervical epithelial carcinoma parental cell line and NG2/MCSP (LHM2) knockout (KO) HeLa cell line. PVDF membrane was probed with 1.0 ug/ml of Mouse Anti-Human NG2/MCSP (LHM2) Polyclonal Antibody (Catalog # NB100-2688) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog #HAF018). Specific band was detected for NG2/MCSP (LHM2) at approximately 300 kDa (as indicated) in the parental HeLa cell line, but is not detectable in the knockout HeLa cell line. This experiment was conducted under reducing conditions. Image from the standard format of this antibody.

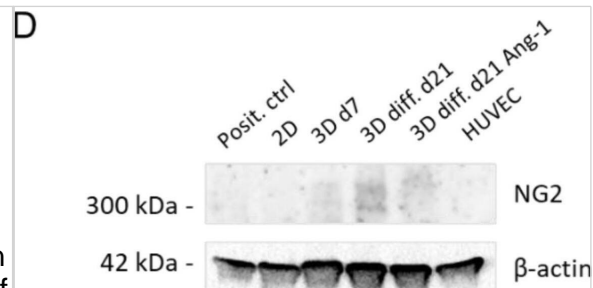


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Differentiation of hASCs towards endothelial cells (ECs) in NFC hydrogel. (A) Differentiation of hASCs in 0.125% NFC hydrogel in endothelial growth medium for 21 days. Scale bars, 100 um (d1) and 50 um (d10, d21). (B) Differentiated cells in 0.125% NFC hydrogel on d7 showing branching of cellular structures (arrows). Scale bars, 25 um. (C) Western blot showing expression of endothelial specific marker CD31 and alpha-smooth muscle actin (α -SMA) in hASCs vs. human umbilical vein endothelial cells (HUVEC) (n = 3, 1 technical replicate). (D) Western blot of pericyte marker NG2 in hASCs and HUVECs. (E) Quantification of NG2 expression (n = 3, 1 technical replicate). * p < 0.05. Ang-1, angiopoietin-1; diff., differentiated cells. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/36289846>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Differentiation of hASCs towards endothelial cells (ECs) in NFC hydrogel. (A) Differentiation of hASCs in 0.125% NFC hydrogel in endothelial growth medium for 21 days. Scale bars, 100 μ m (d1) and 50 μ m (d10, d21). (B) Differentiated cells in 0.125% NFC hydrogel on d7 showing branching of cellular structures (arrows). Scale bars, 25 μ m. (C) Western blot showing expression of endothelial specific marker CD31 and alpha-smooth muscle actin (α -SMA) in hASCs vs. human umbilical vein endothelial cells (HUVEC) (n = 3, 1 technical replicate). (D) Western blot of pericyte marker NG2 in hASCs and HUVECs. (E) Quantification of NG2 expression (n = 3, 1 technical replicate). * p < 0.05. Ang-1, angiopoietin-1; diff., differentiated cells. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/36289846>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Koivunotko E, Snirvi J, Merivaara A Et al. Angiogenic Potential of Human Adipose-Derived Mesenchymal Stromal Cells in Nanofibrillated Cellulose Hydrogel Biomedicines 2022-10-27 [PMID: 36289846] (WB, Human)

Details:

Citation using the Azide and BSA Free version of this antibody.



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Products Related to NBP2-80873

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]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)

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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