

# Product Datasheet

## NG2/MCSP Antibody - BSA Free NBP1-89682

Unit Size: 0.1 ml

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

[www.novusbio.com](http://www.novusbio.com)



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### Publications: 1

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**NBP1-89682**

NG2/MCSP 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	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

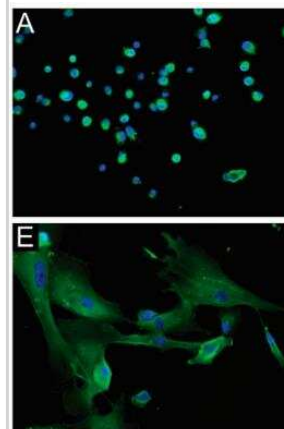
Product Description	
Description	Novus Biologicals Rabbit NG2/MCSP Antibody - BSA Free (NBP1-89682) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-NG2/MCSP Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	1464
Gene Symbol	CSPG4
Species	Human
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: Mouse (87%), Rat (83%)
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: ILYEHEMPPEPFWEAHDITLELQLSSPPARDVAATLAVAVSFEAACQPQRPSHLW KNKGLWVPEGQRARITVAALDASNLLASVPSPQRSEHDVLFQVTQFPSRGQLL VSEEPLHAGQPHFLQSQLAAGQLVYAHGGGGTQQDGFHFRAHL

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:200 - 1:500, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 1:200 - 1:500
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended.

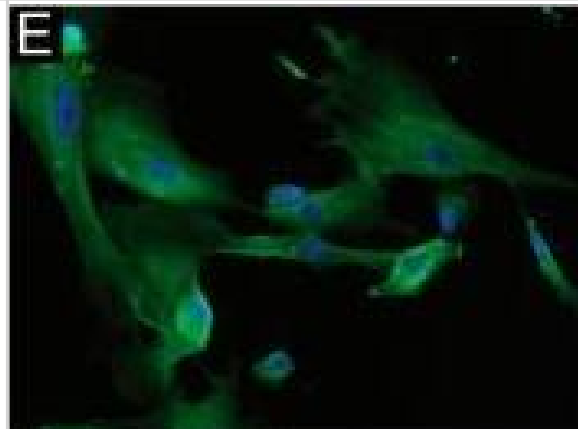


## Images

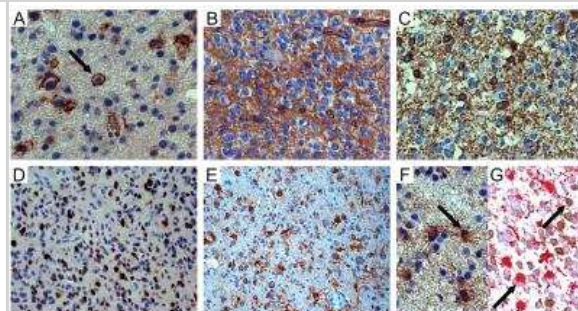
Immunocytochemistry/ Immunofluorescence: NG2/MCSP Antibody [NBP1-89682] - Immunofluorescence (IF) analysis of NG2/CSPG4 expression in glioblastoma (GB)-derived human cell lines. IF of a GB-derived neurosphere cell line for (A) NG2/CSPG4 (green), original magnification (OM)  $\times 200$ ; (B) Nestin (red), OM  $\times 200$ ; (C) MSe1 (red), OM  $\times 200$ ; (D) Notch-2 (green), OM  $\times 200$ . IF staining of an adherent cell line for (E) NG2/CSPG4 (green), OM  $\times 400$ ; (F) GFAP (green), OM  $\times 400$ ; (G)  $\beta$ -III Tubulin (red), OM  $\times 200$ ; (H) Galactocerebroside C (red), OM  $\times 200$ . Nuclei were counterstained with DAPI (blue). DAPI, 4',6-diamidino-2-phenylindole. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/32599896>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



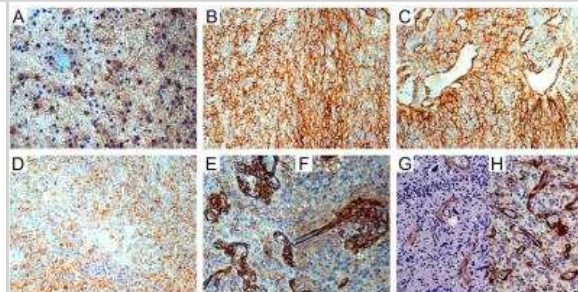
Immunocytochemistry/ Immunofluorescence: NG2/MCSP Antibody [NBP1-89682] - Immunofluorescence (IF) analysis of NG2/CSPG4 expression in glioblastoma (GB)-derived human cell lines. IF of a GB-derived neurosphere cell line for (A) NG2/CSPG4 (green), original magnification (OM)  $\times 200$ ; (B) Nestin (red), OM  $\times 200$ ; (C) MSe1 (red), OM  $\times 200$ ; (D) Notch-2 (green), OM  $\times 200$ . IF staining of an adherent cell line for (E) NG2/CSPG4 (green), OM  $\times 400$ ; (F) GFAP (green), OM  $\times 400$ ; (G)  $\beta$ -III Tubulin (red), OM  $\times 200$ ; (H) Galactocerebroside C (red), OM  $\times 200$ . Nuclei were counterstained with DAPI (blue). DAPI, 4',6-diamidino-2-phenylindole. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/32599896>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



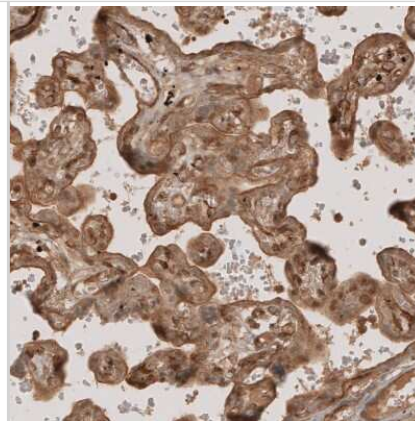
NG2-MCSP-Antibody-Immunohistochemistry-NBP1-89682-img0010.jpg



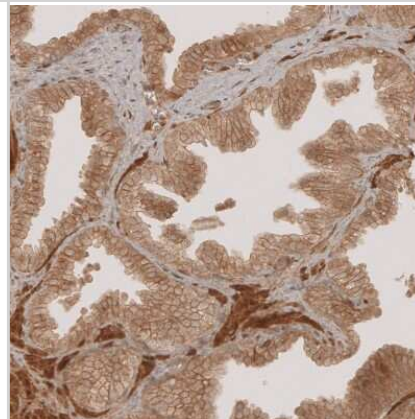
NG2-MCSP-Antibody-Immunohistochemistry-NBP1-89682-img0011.jpg



Immunohistochemistry-Paraffin: NG2/MCSP Antibody [NBP1-89682] - Immunohistochemical staining of human placenta shows moderate membranous and cytoplasmic positivity in trophoblast.



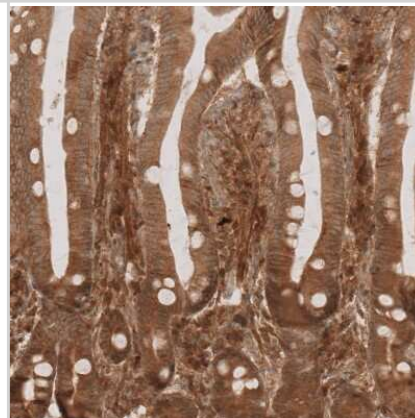
Immunohistochemistry-Paraffin: NG2/MCSP Antibody [NBP1-89682] - Immunohistochemical staining of human prostate shows moderate membranous and cytoplasmic positivity in glandular cells.



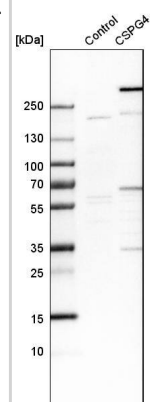
Immunohistochemistry-Paraffin: NG2/MCSP Antibody [NBP1-89682] - Immunohistochemical staining of human cerebral cortex shows moderate positivity in neuropil.



Immunohistochemistry-Paraffin: NG2/MCSP Antibody [NBP1-89682] - Immunohistochemical staining of human duodenum shows moderate membranous and cytoplasmic positivity in glandular cells.



Analysis in control (vector only transfected HEK293T lysate) and CSPG4 over-expression lysate (Co-expressed with a C-terminal myc-DDK tag (~3.1 kDa) in mammalian HEK293T cells).



## Publications

Mellai M, Annovazzi L, Bisogno I et al. Chondroitin Sulphate Proteoglycan 4 (NG2/CSPG4) Localization in Low- and High-Grade Gliomas Cells 2020-06-24 [PMID: 32599896] (Human)



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### **Products Related to NBP1-89682**

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NBP1-89682PEP	NG2/MCSP Recombinant Protein Antigen
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
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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### **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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