

Neural/Glial Antigen 2 (NG2) Monoclonal Antibody (9.2.27), Alexa Fluor™ 488, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), Alexa Fluor™ 488, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	9.2.27
Conjugate	Alexa Fluor™ 488
Excitation/Emission Max	499/520 nm
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10853964

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	Assay-Dependent	-
Immunocytochemistry (ICC/IF)	20 µg/mL	1 Publication
Flow Cytometry (Flow)	0.125 µg/test	1 Publication

Product Specific Information

Description: This 9.2.27 monoclonal antibody reacts with human neural/glial antigen 2, which is also known as melanoma chondroitin sulfate proteoglycan (MCSP). This antigen is composed of a 250 kDa N-linked glycoprotein and a >450 kDa proteoglycan. NG2 is present on the surface of >90% of malignant melanomas in addition to some non-melanomic tumors. Moreover, NG2 is expressed on glioma cells, as well as on developing and adult oligodendrocyte precursor cells. Studies have demonstrated the involvement of this protein in tumor cell proliferation, adhesion, migration, and invasion. NG2 also functions as a coreceptor for alpha4beta1 integrin. Finally, expression of NG2 can be used as a prognostic marker for disorders such as acral lentiginous melanoma and infantile acute myeloid leukemia.

The 9.2.27 antibody has been reported to suppress melanoma tumor growth.

Applications Reported: This 9.2.27 has been reported for use in flow cytometric analysis, immunohistochemical staining of formalin-fixed paraffin embedded tissue (IHC-P), and immunocytochemical staining of fixed cells (ICC).

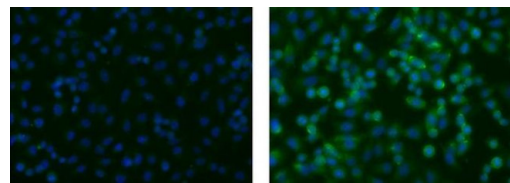
Applications Tested: This 9.2.27 antibody has been tested by immunocytochemistry on methanol-fixed A375 cells at less than

or equal to 20 µg/mL and by flow cytometric analysis on A375 cells at less than or equal to 0.125 µg/test. A test is defined as the amount (ug) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10e5 to 10e8 cells/test. It is recommended that this antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 488 nm; Emission: 519 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For Neural/Glial Antigen 2 (NG2) Monoclonal Antibody (9.2.27), Alexa Fluor™ 488, eBioscience™



Neural/Glial Antigen 2 (NG2) Antibody (53-6504-82) in ICC/IF
Immunocytochemistry on fixed A375 cells using 20 µg/mL of Mouse IgG2a K Isotype control Alexa Fluor® 488 (left) or 20 µg/mL Anti-Human Neural/Glial Antigen 2 (NG2) Alexa Fluor® 488 (right). Nuclei are counterstained with DAPI.

[View more figures on thermofisher.com](#)

3 References

Immunohistochemistry (1)

Fluids and barriers of the CNS Tunneling nanotubes evoke pericyte/endothelial communication during normal and tumoral angiogenesis. "Published figure using Neural/Glial Antigen 2 (NG2) monoclonal antibody (Product # 53-6504-82) in Immunofluorescence" Authors: Errede M,Mangieri D,Longo G,Girolamo F,de Trizio I,Vimercati A,Serio G,Frei K,Perris R,Virgintino D	Year 2018
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Immunocytochemistry (1)

Fluids and barriers of the CNS Tunneling nanotubes evoke pericyte/endothelial communication during normal and tumoral angiogenesis. "Published figure using Neural/Glial Antigen 2 (NG2) monoclonal antibody (Product # 53-6504-82) in Immunofluorescence" Authors: Errede M,Mangieri D,Longo G,Girolamo F,de Trizio I,Vimercati A,Serio G,Frei K,Perris R,Virgintino D	Year 2018
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Flow Cytometry (1)

Journal of cellular biochemistry Angiogenic and Restorative Abilities of Human Mesenchymal Stem Cells Were Reduced Following Treatment With Serum From Diabetes Mellitus Type 2 Patients. "53-6504-82 was used in Flow cytometry/Cell sorting to suggest diabetes could decrease angiogenic and restorative effect of stem cells in vitro." Authors: Rezaie J,Mehranjani MS,Rahbarghazi R,Shariatzadeh MA	Year 2018 Species Human
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