
Anti-Human Neural/Glial Antigen 2 (NG2) Purified

Catalog Number: 14-6504

Also known as: Chondroitin Sulfate Proteoglycan, MCSP/melanoma chondroitin sulfate proteoglycan

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Contents: Anti-Human Neural/Glial Antigen 2 (NG2) Purified

 **Catalog Number:** 14-6504

Clone: 9.2.27

Concentration: 0.5 mg/mL

Host/Isotype: Mouse IgG2a, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C.







Batch Code: Refer to vial

Use By: Refer to vial

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, immunoprecipitation, 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 10 ug/mL and by flow cytometric analysis on A375 cells at less than or equal to 0.125 ug/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.

References

Yang J, Price MA, Neudauer CL, Wilson C, Ferrone S, Xia H, Iida J, Simpson MA, McCarthy JB. Melanoma chondroitin sulfate proteoglycan enhances FAK and ERK activation by distinct mechanisms. *J Cell Biol.* 2004 Jun 21;165(6):881-91. (9.2.27)

Li Y, Madigan MC, Lai K, Conway RM, Billson FA, Crouch R, Allen BJ. Human uveal melanoma expresses NG2 immunoreactivity. *Br J Ophthalmol.* 2003 May;87(5):629-32. (9.2.27, IHC-P)

Pluschke G, Vanek M, Evans A, Dittmar T, Schmid P, Itin P, Filardo EJ, Reisfeld RA. Molecular cloning of a human melanoma-associated chondroitin sulfate proteoglycan. *Proc Natl Acad Sci U S A.* 1996 Sep 3;93(18):9710-5. (9.2.27, IP)

Schulz G, Bumol TF, Reisfeld RA. Monoclonal antibody-directed effector cells selectively lyse human melanoma cells in vitro and in vivo. *Proc Natl Acad Sci U S A.* 1983 Sep;80(17):5407-11. (9.2.27, FA)

Bumol TF, Reisfeld RA. Unique glycoprotein-proteoglycan complex defined by monoclonal antibody on human melanoma cells. *Proc Natl Acad Sci U S A.* 1982 Feb;79(4):1245-9. (9.2.27, IP)

Morgan AC et al. Production and characterization of monoclonal antibody to a melanoma specific glycoprotein.

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Hybridoma 1:27-36 (1981). IP; Human. PubMed: 6208119)

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00-4960 Permount™ Mounting Medium

14-4724 Mouse IgG2a K Isotype Control Purified

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