Alexa Fluor® 647 Mouse Anti-Chondroitin Sulfate

Product Information

Material Number: 562414
Alternate Name: CSPG4; NG2; Chondroitin sulfate proteoglycan 4; MCSP; MCSPG; MELCSPG; MSK16
Size: 50 tests
Vol. per Test: 5 µl
Clone: 9.2.27
Immunogen: Extracts of Human M21 Melanoma Cells
Isotype: Mouse (BALB/c) IgG2a
Reactivity: QC Testing: Human
Storage Buffer: Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The 9.2.27 monoclonal antibody specifically binds to CSPG4 (chondroitin sulfate proteoglycan 4). CSPG4 is also known as MCSP (melanoma chondroitin sulfate proteoglycan) and NG2 (neural/glial antigen 2). The hybridoma secreting the 9.2.27 antibody was generated using a human melanoma cell extract as the immunogen. Tumor cells display a variety of antigens which have been defined by antibodies.

Antibodies that specifically react with tumor-associated antigens are useful in understanding the biology of particular tumor types. Proteoglycans including chondroitin sulfate, keratan sulfate, dermatan sulfate and heparan sulfate are major components of the extracellular matrices of many animal cell types. Clone 9.2.27 has been shown to react with human melanoma cells, glioma cells, and proliferating brain endothelial cells. It did not react with fetal melanocytes, neuroblastoma LA-N-1 cells or a variety of carcinoma, lymphoid, and fibroblastoid cell lines. Additionally, neither white nor gray matter from the medulla oblongata, cerebellum or spinal cord of a normal human adult reacted with 9.2.27. Clone 9.2.27 has also been used in functional studies to investigate the role of chondroitin sulfate proteoglycans in human tumor cell systems. It has been shown to block melanoma cell spreading, exhibit antiproliferative effects on glioma cells in vitro and suppress glioma tumor growth in athymic nude mice models.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated to Alexa Fluor® 647 under optimum conditions, and unreacted Alexa Fluor® 647 was removed.

Application Notes

Application

Flow cytometry Routinely Tested

Suggested Companion Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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<tr>
<td>557715</td>
<td>Alexa Fluor® 647 Mouse IgG2a, κ Isotype Control</td>
<td>100 tests</td>
<td>G155-178</td>
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<td>554656</td>
<td>Stain Buffer (FBS)</td>
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562414 Rev. 1
Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use $1 \times 10^6$ cells in a 100-µl experimental sample (a test).
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. The Alexa Fluor®, Pacific Blue™, and Cascade Blue® dye antibody conjugates in this product are sold under license from Molecular Probes, Inc. for research use only, excluding use in combination with microarrays, or as analyte specific reagents. The Alexa Fluor® dyes (except for Alexa Fluor® 430), Pacific Blue™ dye, and Cascade Blue® dye are covered by pending and issued patents.
5. Alexa Fluor® is a registered trademark of Molecular Probes, Inc., Eugene, OR.
6. Alexa Fluor® 647 fluorochrome emission is collected at the same instrument settings as for allophycocyanin (APC).
7. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
8. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.

References


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