

## Mouse NG2/MCSP Alexa Fluor® 647-conjugated Antibody

Monoclonal Rat IgG<sub>1</sub> Clone # 546930 Catalog Number: FAB6689R

100 µg

DESCRIPTION	
Species Reactivity	Mouse
Specificity	Detects mouse NG2/MCSP in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human NG2/MCSP/CSPG4 is observed.
Source	Monoclonal Rat IgG <sub>1</sub> Clone # 546930
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse NG2/MCSP Leu1587-Ser2229 Accession # Q8VHY0
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

## **APPLICATIONS**

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

Immunohistochemistry

Optimal dilution of this antibody should be experimentally determined

PREPARATION AND STORAGE	
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

## **BACKGROUND**

NG2, also called MCSP (melanoma-associated chondroitin sulfate proteoglycan), CSPG4, or AN2, is a 400-500 kDa proteoglycan found on multiple cell types, including immature oligodendrocytes, osteoblasts, chondroblasts, and pericytes. It interacts with integrin α3β1, galectin 3, MMP16, collagen VI and PDGFRα. Mature mouse NG2 is a 2298 amino acid (aa) type I transmembrane glycoprotein. The extracellular region is 2200 aa in length (aa 30-2229), while the cytoplasmic domain is 76 aa in size. The glycoprotein component of NG2 is approximately 300-315 kDa in size. Proteolytic cleavage generates a 290 and 275 kDa form (excluding the chondroitin sulfate moiety). There are two splice variants. One shows a 38 aa substitution for aa 1657-2327, while another shows an alternate start site at Met1667. Over aa 31-420, mouse NG2 shares 95% and 80% aa identity with rat and human NG2, respectively.

## PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.

Rev. 9/22/2025 Page 1 of 1

China | info.cn@bio-techne.com TEL: 400.821.3475