Human NG2/MCSP Alexa Fluor® Plus 555-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF2585AFP555
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human NG2/MCSP in direct ELISAs and Western blots. In Western blots, approximately 30% cross-reactivity with recombinant mouse CSPG4 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human NG2/MCSP Ser1583-Ser2224 Accession # Q6UVK1
Conjugate	Alexa Fluor Plus 555 Excitation Wavelength: 558 nm Emission Wavelength: 572 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and 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.*

Knockout Validated	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.

DATA

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 (neuron/glia-type 2 antigen; also MCSP/melanoma chondroitin sulfate proteoglycan) is a 250-500 kDa type I integral membrane proteoglycan found on synantocytes (NG2+ glia), vascular pericytes, chondroblasts, macrophages and melanoma cells. It binds multiple components of the ECM, and serves as a ligand for α3β1 and α4β1 integrins. Mature human NG2 is 2293 amino acids (aa) in length. It contains a large 2195 aa extracellular region (aa 30-2224) and a short 79 aa cytoplasmic tail. NG2 is variably glycanated. Without proteoglycan, NG2 is expressed as a 250 kDa glycoprotein. Juxtamembrane proteolysis generates a soluble ECD that noncovalently associates with the transmembrane fragment. Over aa 1583-2224, human NG2 is 81% aa identical to both mouse and canine NG2.

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