

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 647 Excitation Wavelength: 658 nm Emission Wavelength: 675 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 αβ1 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.

PRODUCT SPECIFIC NOTICES

This product is provided under an intellectual property license from Life Technologies Corporation. The transfer of this product is conditioned on the buyer using the purchased product solely in research conducted by the buyer, excluding contract research or any fee for service research, and the buyer must not (1) use this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; or (c) manufacturing or quality assurance or quality control, and/or (2) sell or transfer this product or its components for resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5781 Van Allen Way, Carlsbad, CA 92008 USA or outlicensing@thermofisher.com.