

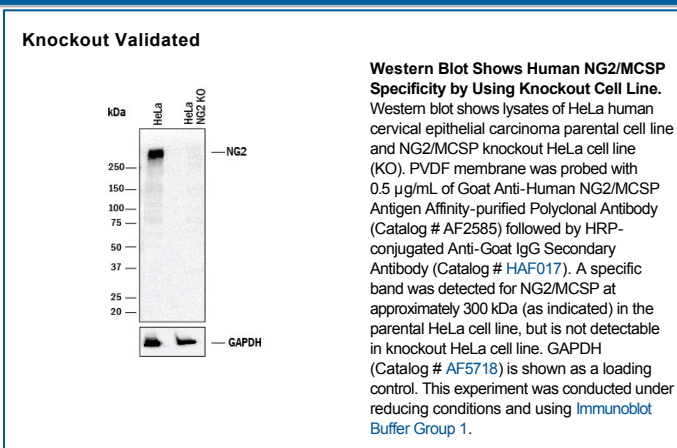
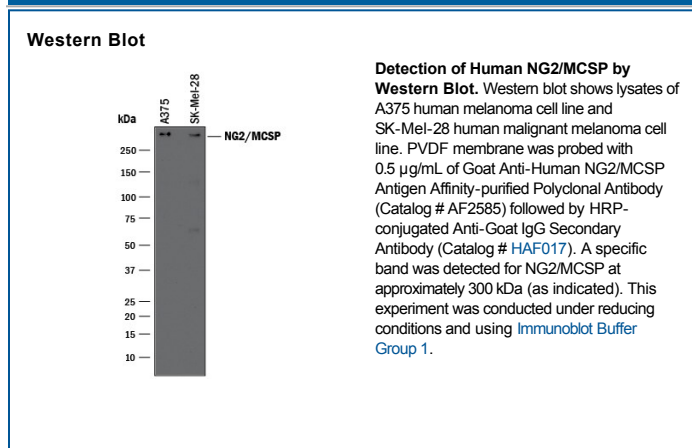
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human NG2/MCSP in direct ELISAs and Western blots. In Western blots, approximately 30% cross-reactivity with recombinant mouse CSPG4 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human NG2/MCSP Ser1583-Ser2224 Accession # Q6UVK1
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	0.5 µg/mL	See Below
Knockout Validated	NG2/MCSP is specifically detected in HeLa human cervical epithelial carcinoma parental cell line but is not detectable in NG2/MCSP knockout HeLa cell line.	

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.