Human NG2/MCSP Antibody

Monoclonal Mouse IgG_1 Clone # LHM-2

Catalog Number: MAB2585

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human NG2/MCSP in Western blots.
Source	Monoclonal Mouse IgG_1 Clone # LHM-2
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human melanoma cells
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.
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 as a 0.2 µm filtered solution in PBS.

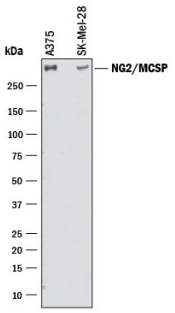
APPLICATIONS

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	1 µg/mL	See Below
Flow Cytometry	0.25 µg/10^6 cells	G361 human melanoma cell line (Smith, F.O. *et al*. (1996) Blood **87**:1123).
Immunohistochemistry	8-25 µg/mL	See Below

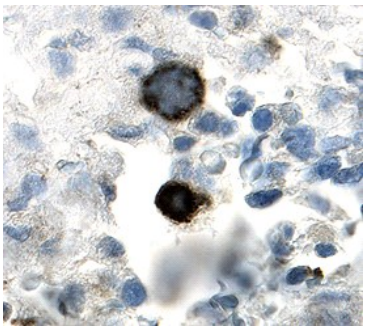
DATA

Western Blot



Detection of Human NG2/MCSP by Western Blot. Western blot shows lysates of A375 human melanoma cell line and SK-Mel-28 human malignant melanoma cell line. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human NG2/MCSP Monoclonal Antibody (Catalog # MAB2585) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for NG2/MCSP at approximately 300 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunohistochemistry



NG2/MCSP in Human Skin Cancer Tissue. NG2/MCSP was detected in immersion fixed paraffin-embedded sections of human skin cancer tissue (melanoma) using 10 µg/mL Mouse Anti-Human NG2/MCSP Monoclonal Antibody (Catalog # MAB2585) overnight at 4 °C. Before incubation with the primary antibody tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained with the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 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.** ● 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, also known as MCSP, is a chondroitin sulfate proteoglycan that has been used as a cell surface marker for melanoma (1) and glial precursor cells (2). NG2 also promotes epidermal stem cell patterned clustering (3).

References:

1. Kupsch, J.M. *et al.* (1995) Melanoma Res. **5**:403.
2. Stegmuller, J. *et al.* (2002) J. Neurocytol. **31**:497.
3. Legg, J. *et al.* (2003) Development **130**:6049.

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