Datasheet for ABIN5526901

anti-NG2 antibody

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Overview

Quantity:	0.1 mg
Target:	NG2 (MCSP)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This NG2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP), Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Immunogen:	Human bone marrow stromal cells infected with SV-40
Clone:	7-1
Isotype:	IgG1
Specificity:	The mouse monoclonal antibody 7.1 recognizes an extracellular epitope of NG2, the melanoma-associated chondroitin sulfate proteoglycan 4 of Mw approximately 220-300 kDa.
Cross-Reactivity (Details):	Human
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

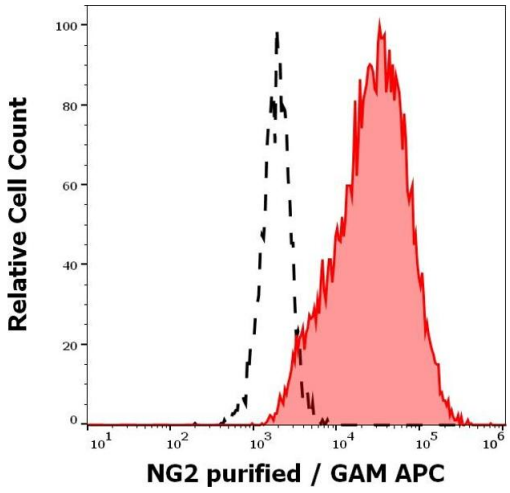
Target:	NG2 (MCSP)
Alternative Name:	NG2 / Chondroitin sulfate proteoglycan 4 (MCSP Products)
Background:	Chondroitin sulfate proteoglycan 4,NG2 / chondroitin sulfate proteoglycan 4 is expressed on glial cell populations, but not on normal hepatopoietic cells. It is an integral membrane chondroitin sulfate proteoglycan expressed by human malignant melanoma cells, where it plays role in stabilizing cell-substratum interactions during early events of melanoma cell spreading on endothelial basement membranes, and supports signaling pathways important for tumor invasion and growth. NG2 also serves as an AML blast tumor marker associated with poor prognosis.,Chondroitin sulfate proteoglycan 4, MSK16, CSPG4, MCSP
Gene ID:	1464
UniProt:	Q6UVK1
Pathways:	Glycosaminoglycan Metabolic Process

Application Details

Application Notes:	Flow cytometry: Recommended dilution: 1-4 µg/mL.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.



Flow Cytometry

Image 1. Separation of SK-MEL-30 cells (red-filled) from SP2 cells (black-dashed) in flow cytometry analysis (surface staining) stained using anti-human NG2 (7.1) purified antibody (concentration in sample 0.6 µg/mL) GAM APC.