

## 30-2869: Anti-NG2 APC Mab (Clone: 7.1 )

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	7.1
<b>Application :</b>	FACS
<b>Reactivity :</b>	Human
<b>Conjugate :</b>	APC
<b>Gene :</b>	CSPG4
<b>Gene ID :</b>	1464
<b>Uniprot ID :</b>	Q6UVK1
<b>Alternative Name :</b>	Chondroitin sulfate proteoglycan 4, MSK16, CSPG4, MCSP
<b>Isotype :</b>	Mouse IgG1
<b>Immunogen Information :</b>	Human bone marrow stromal cells infected with SV-40

### Description

**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.

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.

### Product Info

<b>Amount :</b>	100 tests
<b>Purification :</b>	Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
<b>Content :</b>	Storage Buffer : Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
<b>Storage condition :</b>	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

### Application Note

**Flow cytometry:** The reagent is designed for analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10<sup>6</sup> cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

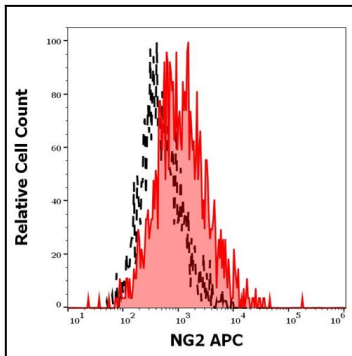


Figure 1: Separation of SK-MEL-30 cells stained using anti-human NG2 (7.1) APC antibody (10  $\mu$ l reagent per million cells in 100  $\mu$ l of cell suspension, red-filled) from SK-MEL-30 cells stained using mouse IgG1 isotype control (MOPC-21) APC antibody (concentration in sample 3  $\mu$ g/ml, same as NG2 APC concentration, black-dashed) in flow cytometry analysis (surface staining) of REH cell suspension.