

## Anti-human NG2 proteoglycan (Clone Ep-1)

Catalog No: MP-AA-8

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### BACKGROUND

Proteoglycans are cell surface linked macromolecules which through protein modules and glycan moieties modulate numerous cellular interactions during embryogenesis, healthy and pathologic state, including tumor progression and neoangiogenesis (1).

### PRODUCT

1. Each vial contains the indicated amount of IgG (caprylic acid purified) in 0,1% gelatine and 0,05 % NaN<sub>3</sub>.
2. Unpurified reagent is provided at the indicated amounts with 0.1% NaN<sub>3</sub>. Centrifuge the vial prior to use.

### SPECIFICITY

The murine monoclonal antibody MP-AA-8 (IgG 1) recognizes a cell surface chondroitin sulphate proteoglycan, the human homologue of the rat NG2. Firstly described in melanoma cells (2,3) is also expressed by a fraction of human gliomas and soft-tissue sarcomas (Fibrosarcomas, fibrohistiocytoma). While not expressed by normal hematopoietic cells, is expressed in childhood and adult AML and ALL with MLL gene rearrangement (4). It is a highly specific biomarker of desmoplastic melanoma (5).

### STORAGE

Store at 4°C, avoid repeated freezing-thawing. Stable for 2 yrs.

### SHIPPING CONDITIONS

Room temperature.

### RESEARCH USE

This antibody is for laboratory research use only, not for human or in-vivo use.

### APPLICATIONS

*Flow cytometry*

5 µ/ml.

*Immunohistochemistry (fluorescence or enzymatic)*

Acetone fixed cryostat sections and cytopins (10 µg/ml).

Immunohistochemistry on formalin-fixed, paraffin-embedded tissue: 5 microns deparaffinized sections are exposed at MW at 750W, in EDTA buffer pH.8.0 for 15 min. Antibody is incubated with sections at concentration of 20-30 µg/ml overnight. Immune reaction is detected with any immunoenzymatic kit of choice following the producer's instructions

*Immunoprecipitation*

5-10 µg using rabbit anti-murine Ig and protein- A Sepharose beads.

### REFERENCES

1. *Macromolecular Bioscience* (2006) **6**: 667-680.
  2. *Int J Cancer* (1987) **39**: 729-736.
  3. *Int J Cancer* (2003) **103**: 399-407.
  4. *Leukemia* (2003) **17**: 1589-1595.
  5. *Pigm. Cell Melan. Res.* (2009) **23**: 137-140.
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