SM079FT

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Monoclonal Antibody to NC1.1 - FITC

Alternate names: Natural Cytotoxix Cells

Catalog No.: SM079FT

Quantity: 25 µg

Concentration: 0.1 mg/ml

Background: NC1.1 is a 45kD cell surface antigen. Natural cytotoxic cells represent a small subset of cells with cytotoxic activity against certain tumour cells in functional assays.

Host / Isotype: Mouse / IgG1

Clone: IC4

Immunogen: Spleen cells from CBA mice. Spleen cells from immunised CE mice were fused with cells of the mouse NS-I myeloma cell line.

Format:
State: Liquid purified IgG fraction.
Purification: Affinity Chromatography on Protein G.
Buffer System: PBS, pH 7.4 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer.
Label: FITC – Fluorescein Isothiocyanate Isomer 1

Applications:
Flow Cytometry: Use 10 µl of neat antibody to label 10 µl of 10e6 cells in 100 µl
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:
This antibody recognises an alloantigen designated NC1.1 expressed by murine natural cytotoxic cells.
The IC4 monoclonal antibody has been shown to block substantially NC cells activity in vivo and in vitro.
This antibody recognises the NC1.1 alloantigen in CBA, C57BL/6, BALB/c and NZB mice, but not in CE or DBA/2 mice.
Species: Mouse.
Other species not tested.

Storage:
Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
This product is photosensitive and should be protected from light.
Shelf life: one year from despatch.

General Readings:
1. Smart YC, Stevenson KL, Farrelly ML, Brien JH, Burton RC. Production of a monoclonal allo-antibody to murine natural cytotoxic cells. Immunol Cell Biol. 1990 Aug;68 (Pt 4):277-84. PubMed PMID: 2249875.
2. Smart YC, Tooney PA, Farrelly ML, Brien JH, Burton RC. Natural cytotoxic cells and tumour surveillance in vivo. Eur J Cancer. 1990;26(8):863-4. PubMed PMID: 2145924.
3. Smart, Y.C. et al. (1992) Correlation of growth of tumours in NC-cell depleted mice with

NC- and NK-cell mediated lysis in vitro. Int. J. Cancer 50: 817-821.
4. Brien, J.H. et al. (1994) Phenotype and morphology of murine NC1.1+ natural cytotoxic cells. Immunol. Cell. Biol. 72: 161-168.
5. Holmgreen SP, Wang X, Clarke GR, Noltorp RS, Roberts TK, Burton RC, et al. Phosphorylation of the NC-1.1 receptor and regulation of natural cytotoxicity by protein kinase C and cyclic GMP-dependent protein kinase. J Immunol. 1997 Mar 1;158(5):2035-41. PubMed PMID: 9036946.