

anti-human CD56

Monoclonal Antibody MEM-188 to CD56 (Human)

Cat-No: **21270561**

100 µg in 100 µl

Clone: MEM-188

Specificity: The antibody MEM-188 reacts with a 180 kDa isoform of CD56 (NCAM) expressed in leukocytes. It has been suggested that the antibody MEM-188 could react with rhesus monkey lymphocytes. Reactivity with other NCAM isoforms has not been tested. HLDA VI; WS code A055, HLDA VI; WS Code NK26, HLDA VII; WS code 70077

Isotype subclass: Mouse IgG2a

Form: Purified from hybridoma culture supernatant by protein-A affinity chromatography.

Purity: > 95% (by SDS-PAGE)

Physical state: Liquid

Buffer/Additives/Preservative: PBS with 0.09% sodium azide (pH 7.2).

Expiration date: The reagent is stable until the expiry date stated on the vial label.

Storage conditions: Store at 4°C. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.

Application: Flow Cytometry, Immunofluorescence, Immunohistochemistry (paraffin sections)

Background: CD56 (NCAM, neural cell adhesion molecule) is a transmembrane glycoprotein of immunoglobulin family serving as adhesive molecule which is ubiquitously expressed in nervous system, usually as 120 kDa, 140 kDa or 180 kDa isoform, and it is also found on T cells and NK cells. Polysialic modification results in reduction of CD56-mediated cell adhesion and is involved in cell migration, axonal growth, pathfinding and synaptic plasticity. CD56 is a widely used neuroendocrine marker with a high sensitivity for neuroendocrine tumours and ovarian granulosa cell tumours.

References:

- 1.) Jakovcevski I, Mo Z, Zecevic N: Down-regulation of the axonal polysialic acid-neural cell adhesion molecule expression coincides with the onset of myelination in the human fetal forebrain. *Neuroscience*. 2007 Oct 26;149(2):328-37.
- 2.) Ohishi Y, et al.: CD56 expression in ovarian granulosa cell tumors, and its diagnostic utility and pitfalls. *Gynecol Oncol*. 2007 Oct;107(1):30-8.
- 3.) McCluggage WG, McKenna M, McBride HA: CD56 is a sensitive and diagnostically useful immunohistochemical marker of ovarian sex cord-stromal tumors. *Int J Gynecol Pathol*. 2007 Jul;26(3):322-7.

Warning: Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

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