

## Anti- Human CD56 (MEM-188)

Fluorochrome	Reference	Size
Pure	56PU2-01MG	100 test
FITC	56F2-100T	100 test
PE	56PE2-100T	100 test
APC	56A2-100T	100 test
Biotin	56B2-01MG	100 test
CF-Blue	56CFB2-100T	100 test

### PRODUCT DESCRIPTION

**Clone:** MEM-188

**Isotype:** IgG1

**Tested application:** flow cytometry

**Immunogen:** The anti-CD56 monoclonal antibody derives from KG-1 human acute myelogenous leukemia cell line.

**Workshop:** Included in the VI, VII and VIII International Workshop on HLDA (WS Code A055, NK26 and 70077 respectively).

**Species reactivity:** Human, Cross-Reactivity: Cattle (Bovine, Cow), Swine (Pig, Porcine)

**Storage instruction:** store in the dark at 2-8 °C

**Storage buffer:** aqueous buffered solution containing protein stabilizer and 0.09% sodium azide (NaN<sub>3</sub>).

**Recommended usage:** Immunostep's CD56, clone MEM-188 is a monoclonal antibody intended for the identification and enumeration of Natural Killer (NK) cells and a subpopulation of T lymphocytes using flow cytometry. This reagent is effective for direct immunofluorescence staining of human tissue for flow cytometric analysis using 1 test for 10<sup>6</sup> cells.

**Presentation:** liquid

**Source:** Supernatant proceeding from an *in vitro* cell culture of a cell hybridoma.

**Purification:** Affinity chromatography.

### ANTIGEN DETAILS

**Large description:** 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.

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.<sup>(1-4)</sup>

**Other Names:** MEM-188

**Gene ID:** 4684

**Molecular weight:** 175 – 185 kDa

Please, refer to [www.immunostep.com](http://www.immunostep.com) technical support for more information.

### WARRANTY

Warranted only to conform to the quantity and contents stated on the label or in the product labelling at the time of delivery to the customer. Immunostep disclaims hereby other warranties. Immunostep's sole liability is limited to either the replacement of the products or refund of the purchase price.

### REFERENCES

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- Brdickova N, Brdicka T, Angelisova P, Horvath O, Spicka J, Hilgert I, et al. LIME: a new membrane Raft-associated adaptor protein involved in CD4 and CD8 coreceptor signaling. *J Exp Med* 2003 Nov 17;198(10):1453-62.
- Lin CW, Liu TY, Chen SU, Wang KT, Medeiros LJ, Hsu SM. CD94 1A transcripts characterize lymphoblastic lymphoma/leukemia of immature natural killer cell origin with distinct clinical features. *Blood* 2005 Nov 15;106(10):3567-74.
- Drbal K, Moertelmaier M, Holzhauser C, Muhammad A, Fuertbauer E, Howorka S, et al. Single-molecule microscopy reveals heterogeneous dynamics of lipid raft components upon TCR engagement. *Int Immunol* 2007 May;19(5):675-84.

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