

# Anti-Human CD56 (MEM-188)



REF



PE	56PE2-100T	100 test	20 µL/test
APC	56A2-100T	100 test	5 µL/test
PE/Cyanine7	56PC72-100T	100 test	5 µL/test

RUO

## 1. 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;  
**Other names:** NCAM, Leu-19, NKH1;  
**Gene ID:** 4684;  
**Molecular weight:** 175 - 185 kDa.

## 2. 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>

## 3. 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.

## 4. ADDITIONAL INFORMATION

For research use only. Not for diagnostic use.

Not for resale. Immunostep will not be responsible of violations that may occur with the use of this product. Any use of this product other than the specified in this document is strictly prohibited.

Unless otherwise indicated by Immunostep by written authorization, this product is intended for research only and is not to be used for any other purpose, including without limitation, for human or animal diagnostic, therapeutic or commercial purposes.

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

## 5. REFERENCES

- Mason D. Leucocyte typing VII : white cell differentiation antigens : proceedings of the Seventh International Workshop and Conference held in Harrogate, United Kindom. Oxford: Oxford University Press; 2002.
- 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 IA 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.

## 6. EXPLANATION OF SYMBOLS



Form

REF

Catalog reference



Contains sufficient for <n> test



Quantity per test



Regulatory Status

RUO

Research Use Only



Manufacturer

## 7. MANUFACTURED BY:

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