

Anti- Human CD3/ CD16+ CD56 (33-2A3/3G8/B-A19)

Fluorochrome	Reference	Size
FITC/PE	3F11656PE-50T	50 test

PRODUCT DESCRIPTION

Clone: 33-2A3,3G8, B-A19

Isotype: IgG2a, IgG1, IgG1

Tested application: flow cytometry

Immunogen: The anti-CD3 monoclonal antibody derives from human leukocytes.

The Mouse anti-human CD16 monoclonal antibody derives from human polymorphonuclear leukocytes. The anti-CD56 monoclonal antibody derives from Human U937 cell line.

Species reactivity: Human

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

Storage buffer: aqueous buffered solution containing protein stabilizer and 0.09% sodium azide (NaN₃).

Recommended usage: Immunostep's CD3/CD16+CD56, clone 33-2A3, 3G8/B-A19 is a monoclonal antibody intended for identification of Natural Killer (CD3-CD16+CD56+) and a subpopulation of T lymphocytes (CD3+). This reagent is effective for direct immunofluorescence staining of human tissue for flow cytometric analysis using 1 test for 10⁶ cells.

Presentation: liquid

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

Purification: Affinity chromatography.

ANTIGEN DETAILS

Large description: The CD3 monoclonal antibody is directed against the CD3- antigen (T3-antigen), which is expressed on human T lymphocytes. The monoclonal antibody reacts with 80-90% human peripheral T lymphocytes and medullary thymocytes. The monoclonal antibody does not react with B-cells, monocytes, granulocytes and platelets.

This CD16 PE, clone 3G8 monoclonal antibody reacts with human and non-human primate CD16, which is also known as the low-affinity FcγRIII. CD16 exists as two distinct isoforms, FcγRIIIA and FcγRIIIB. In humans, FcγRIIIA is expressed as a polypeptide-anchored form on monocytes, macrophages, and lymphocytes such as NK cells. T and B cells do not express this Fc receptor. FcγRIIIB is also detected on neutrophils as a GPI-anchored form. Expression of CD16 on lymphocytes and monocytes is similar in non-human primates.

CD56, expression of neural cell adhesion molecules (N-CAM) provides neurons with a means of attaching to and interacting with other cells and the extracellular matrix. Alternative splicing of N-CAM mRNA results in several N-CAM isoforms. The functional significance of alternative forms of N-CAM remains to be fully elucidated.

Please, refer to 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

1. Tunnacliffe A, Olsson C, Traunecker A, Krissansen GW, Karjalainen K, de la Hera A. T3.2. The majority of CD3 epitopes are conferred by the epsilon chain. In: Knapp W, Dörken B, Gilks WR, Rieber EP, Schmidt RE, Stein H, et al., editors. Leucocyte typing IV. White cell differentiation antigens. Proceedings of the 4th International Workshop and Conference; 1989 Feb 21-25; Vienna, Austria. Oxford, New York, Tokyo: Oxford University Press; 1989. p. 295-6.
2. Schmidt RE. M6. CD16 cluster workshop report. In: Schlossman SF, Boumsell L, Gilks W, Harlan JM, Kishimoto T, Morimoto C, et al., editors. Leucocyte typing V. White cell differentiation antigens. Proceedings of the 5th International Workshop and Conference; 1993 Nov 3-7; Boston, USA. Oxford, New York, Tokyo: Oxford University Press; 1995. Volume 2. p. 805-6.
3. Tamm A, Schmidt RE. The binding epitopes of human CD16 (FcγRIII) monoclonal antibodies. Implications for ligand binding. *J Immunol* 1996;157:1576-81.
4. Poggi A. CD56. CD Guide. In: Mason D, André P, Bensussan A, Buckley C, Civin C, Clark E, et al., editors. Leucocyte typing VII. White cell differentiation antigens. Proceedings of the 7th International Workshop and Conference; 2000 Jun 19-23; Harrogate, United Kingdom. New York: Oxford University Press Inc.; 2002. p. 805-806.

MANUFACTURED BY



Immunostep S.L.
Avda. Universidad de Coimbra, s/n
Cancer Research Center (CIC)
Campus Miguel de Unamuno
37007 Salamanca (Spain)
Tel. (+34) 923 294 827
www.immunostep.com