

# anti-human CD16

## Monoclonal Antibody to CD16 (Human)

Cat-No: **21330161**

100 µg in 100 µl

**Clone:** 5D2

**Specificity:** This clone has been derived from hybridization of SP2/0 cells with spleen cells of a BALB/c mouse immunised with human granulocytes. This antibody has been clustered to CD16 in the Fifth International Workshop on Human White Cell differentiation Antigens. The monoclonal antibody is directed against the CD16-antigen (the Fc gamma Receptor III), which is expressed on neutrophil granulocytes, monocytes (weak), macrophages (weak) and NK cells (molecular mass 45 – 72 kDa). It is absent in patients with PNH. The mobility of the CD16-antigen is dependent on the NA<sub>1</sub>/NA<sub>2</sub> allotype of the neutrophil donor. The monoclonal antibody inhibits the binding of human IgG to the Fc gamma receptor III.

**Isotype subclass:** Mouse IgG2a

**Purification:** The antibody was purified from ascites or tissue culture supernatant using column chromatography (ion exchange and/or affinity chromatography).

**Physical state:** Liquid

**Buffer/Additives/Preservative:** PBS containing 0.09 % (w/v) 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:** Enumeration of K- and NK-cell numbers in peripheral blood and lymphoid tissue. Methods: Direct immunofluorescence staining with analysis by flowcytometry or fluorescence microscopy.

### References:

- 1.) Miedema F. et al., Eur.J. Immunol., 14, 518 (1984).
- 2.) Tetteroo P.A.T. et al., Reinherz E.L. (editor) et al., Leucocyte typing II, Springer-Verlag, New York, 3, 27 (1986).
- 3.) Werner G. et al., Reinherz E.L. (editor) et al., Leucocyte typing II, Springer-Verlag, New York, 3, 109 (1986).
- 4.) Tetteroo P.A.T. et al., Mc. Michael, A.J. (editor) et al., Leucocyte typing III, Oxford University Press, Oxford, 702 (1987).
- 5.) Huizinga T.W.J., Nature, 333, 667 (1988).

**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.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

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