

TECHNICAL DATA SHEET

CyFlow™ CD16 Purified Anti-Hu; Clone MEM-154

REF CL554989

For Research Use Only.
Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD16
Alternative Names	FcγRIIIA, CD16a
Clone	MEM-154
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Human granulocytes

Specificity

The mouse monoclonal antibody MEM-154 reacts with an epitope on CD16 antigen that is residing in proximity to FG loop (probably BC or C'E loop). CD16 is a low affinity receptor for aggregated IgG (FcγRIII antigen). The antibody MEM-154 reacts with CD16+ granulocytes.

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Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Immunoprecipitation
- Western blot
- Functional assays

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH $\approx$ 7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

CD16 (Fc γ RIII) is a 50-65 kDa glycoprotein serving as a low affinity IgG receptor. Human Fc γ RIII is expressed in two forms - Fc γ RIIIA and Fc γ RIIIB. Fc γ RIIIA is a transmembrane protein of monocytes, macrophages, NK cells and a subset of T cells. It is associated with Fc ϵ RI- γ subunit and is responsible for antibody-dependent NK cell cytotoxicity. Mast cell Fc γ RIIIA is associated, moreover, with Fc ϵ RI- β subunit. Besides IgG, Fc γ RIIIA can be triggered also by oligomeric IgE. Fc γ RIIIB is a GPI-linked monomeric receptor expressed on neutrophils and is involved in their activation and induction of a proadhesive phenotype.

References

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The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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