

30-1120: Anti-CD16 / FcgammaRIII Monoclonal Antibody (Clone:MEM-154)

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|-------------------------|-------------------------------|
| Clonality : | Monoclonal |
| Clone Name : | MEM-154 |
| Application : | FACS |
| Reactivity : | Human |
| Gene : | FCGR3A |
| Gene ID : | 2214 |
| Uniprot ID : | P08637 |
| Format : | Purified |
| Alternative Name : | FCGR3A,CD16A,FCG3,FCGR3,IGFR3 |
| Isotype : | Mouse IgG1 |
| Immunogen Information : | Human granulocytes |

Description

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

Product Info

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|---------------------|---|
| Amount : | 0.1 mg |
| Purification : | Purified by protein-A affinity chromatography |
| Storage condition : | Store at 2-8°C. Do not freeze. |

Application Note

Flow Cytometry *Recommended dilution:* 5-10 µg/ml

Positive control: PBL (peripheral blood lymphocytes)

Application note: The antibody MEM-154 does not react with CD16a present on NK cells in many subjects.

Immunoprecipitation Western Blotting *Application note:* Non-reducing conditions. **Functional Application** The antibody MEM-154 blocks binding of human IgG to FcgammaRIII.

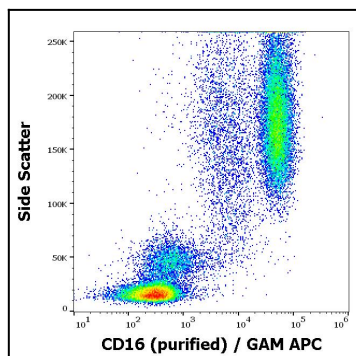


Figure 1: Flow cytometry surface staining pattern of human peripheral blood stained using anti-human CD16 (MEM-154) purified antibody (concentration in sample 2 µg/ml) GAM APC.

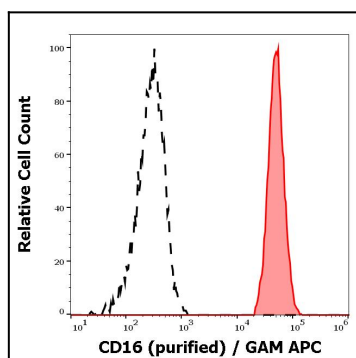


Figure 2: Separation of FasL transfected L5178Y cells stained using anti-human CD178 (NOK-1) purified antibody (concentration in sample 9 µg/ml, GAM APC, red-filled) from FasL transfected L5178Y cells unstained by primary antibody (GAM APC, black-dashed) in flow cytometry analysis (surface staining).