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Purified Mouse Anti- Human CD16b Monoclonal Antibody

CLX23AP

Lot:

Clone: MEM-154

Isotype: Mouse IgG1

Specificity: The antibody MEM-154 reacts with the epitope on CD16 antigen that residing in proximity to FG loop (probably BC or C'E loop). CD16 is a low affinity receptor for aggregated IgG (Fcγ₃ antigen). The antibody MEM-154 reacts with CD16+ granulocytes.

HLDA V; WS Code M MA068

HLDA V; WS Code NK NK51

Immunogen: Human granulocytes.

Species Reactivity: Human

Purity: > 95% (by SDS-PAGE)

Purification: Purified from hybridoma culture supernatant by protein A-affinity chromatography.

Concentration: 1 mg/ml

Storage Buffer: Tris buffered saline (TBS) with 15 mM sodium azide, approx. pH 8.0

Storage / Stability: Store at 2-8°C. Do not use after expiration date stamped on vial label. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.

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Usage: 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 FcγRIII.

Background: CD16 (FcγRIII) is a 50-65 kDa glycoprotein serving as a low affinity IgG receptor. Human FcγRIII is expressed in two forms – FcγRIII-A and -B. FcγRIII-A is a transmembrane protein of monocytes, macrophages, NK cells and a subset of T cells. It is associated with FcεRI-gamma subunit and is responsible for antibody-dependent NK cell cytotoxicity. Mast cell FcγRIII-A is associated, moreover, with FcεRI-beta subunit. Besides IgG, FcγRIII-A can be triggered also by oligomeric IgE. FcγRIII-B 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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Laboratory Reagent For Research Use Only