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10-4206: Monoclonal antibody to CD16 (Clone: B73.1)

Clonality :	Monoclonal
Clone Name :	B73.1
Application :	FACS,IF
Reactivity :	Mouse,Human
Gene :	FCGR3A
Gene ID :	2214
Uniprot ID :	P08637
Format :	Purified
Alternative Name :	CD16-II, CD16a antigen, Fc-gamma RIII-alpha, FcR-10, IgG Fc receptor III-2, CD16A, FCG3, FCGR3, IGFR3
Isotype :	Mouse IgG1k
Immunogen Information :	NK cell-enriched fraction from human peripheral blood was used as the immunogen for this antibody.

Description

CD16, also known as low affinity IgG receptor III (FcγRIII), is expressed as two distinct forms, referred to as CD16a and CD16b. CD16a (FcγRIIIA) is a 50-65 kD polypeptide-anchored transmembrane protein expressed on the surface of NK cells, activated monocytes, macrophages, a subset of T cells, and placental trophoblasts in humans. CD16b (FcγRIIIB) is a 48 kD glycosylphosphatidylinositol (GPI)-anchored protein whose extracellular domain is over 95% homologous to that of CD16a, and is expressed specifically on neutrophils. CD16 binds to aggregated IgG or IgG-antigen complex, which functions in NK cell activation, phagocytosis, and antibody-dependent cell-mediated cytotoxicity (ADCC).

Product Info

Amount :	25 µg / 100 µg
Purification :	Protein G Chromatography
Content :	25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Storage condition :	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

FACS, IF

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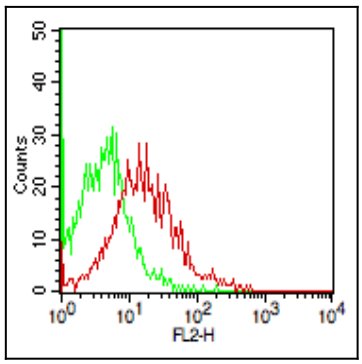

Figure 1: Cell surface staining of PBMC using anti-CD16, clone B73.1 antibody (10-4206). Green histogram: Isotype control. Red histogram: anti-CD16 antibody. Goat anti-mouse PE was used as secondary antibody. 0.5 µg antibody was used.

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