

## 10-4206-NALE: Monoclonal antibody to CD16 (Clone: B73.1) No Azide, Low Endotoxin

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	B73.1
<b>Application :</b>	FACS,IF
<b>Reactivity :</b>	Mouse,Human
<b>Gene :</b>	FCGR3A
<b>Gene ID :</b>	2214
<b>Uniprot ID :</b>	P08637
<b>Format :</b>	Purified
<b>Alternative Name :</b>	CD16-II, CD16a antigen, Fc-gamma RIII-alpha, FcR-10, IgG Fc receptor III-2, CD16A, FCG3, FCGR3, IGFR3
<b>Isotype :</b>	Mouse IgG1k
<b>Immunogen Information :</b>	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

<b>Amount :</b>	100 µg
<b>Purification :</b>	Protein G Chromatography
<b>Content :</b>	25 µg in 50 µl/100 µg in 200 µl PBS.
<b>Storage condition :</b>	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

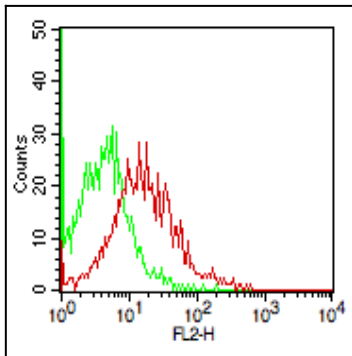


Figure 1: Cell surface staining of PBMC using anti-CD16, clone B73.1 antibody (10-4206). Green histogram: Isotype control. Red histogram: anti-CD16 antibody. Goat anti-mouse PE was used as secondary antibody. 0.5  $\mu$ g antibody was used.