PE Conjugated Anti-Human CD16 Antibody [PSH04-95] HA600129F

Product Type: Recombinant Mouse monoclonal IgG1, primary antibodies

Species reactivity: Human
Applications: FC

Molecular Wt: Predicted band size: 29 kDa

Clone number: PSH04-95

Description: CD16, also known as FcyRIII, is a cluster of differentiation molecule found on the surface of

natural killer cells, neutrophils, monocytes, macrophages, and certain T cells. CD16 has been identified as Fc receptors FcyRIIIa (CD16a) and FcyRIIIb (CD16b), which participate in signal transduction. The most well-researched membrane receptor implicated in triggering lysis by NK cells, CD16 is a molecule of the immunoglobulin superfamily (IgSF) involved in antibody-dependent cellular cytotoxicity (ADCC). It can be used to isolate populations of specific immune cells through fluorescent-activated cell sorting (FACS) or magnetic-activated cell sorting, using antibodies directed towards CD16. CD16 is the type III Fcy receptor. In humans, it exists in two different forms: FcyRIIIa (CD16a) and FcyRIIIb (CD16b), which have 96% sequence similarity in the extracellular immunoglobulin binding regions. While FcyRIIIa is expressed on mast cells, macrophages, and natural killer cells as a transmembrane receptor, FcyRIIIb is only expressed on neutrophils. In addition, FcyRIIIb is the only Fc receptor anchored to the cell membrane by a glycosyl-phosphatidylinositol (GPI) linker, and also plays a significant role in triggering calcium mobilization and neutrophil degranulation. FcyRIIIa and FcyRIIIb together are able to activate degranulation, phagocytosis, and oxidative burst, which allows neutrophils to clear opsonized pathogens.

Conjugate: PE

Immunogen: Recombinant protein within

Positive control: Human peripheral blood granulocytes.

Subcellular location: Cell membrane. Secreted.

Database links: SwissProt: P08637 Human

Recommended Dilutions:

FC 5 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l of whole blood.

Storage Buffer: Supplied in phosphate-buffered solution, pH 7.2, containing 0.2% ProClean 950 and BSA.

Storage Instruction: Store at 2° to 8° . Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Technical:0086-571-89986345

Service mail:support@huabio.cn



Images

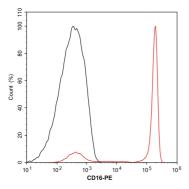


Fig1: Flow cytometric analysis of human peripheral blood granulocytes labelling Human CD16 (HA600129F, PE).

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

- 1. Liu X et al. CD16(+) fibroblasts foster a trastuzumab-refractory microenvironment that is reversed by VAV2 inhibition. Cancer Cell. 2022 Nov
- 2. Cocker ATH et al. The CD56-CD16+ NK cell subset in chronic infections. Biochem Soc Trans. 2023 Jun