InnoCyto Inc.
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Technical Data Sheet

APC Conjugated Human CD16a Protein (C-His, 176V)

Catalog Number: 800303, 800304
Size: 25 ug, 100 ug
Target Name: CD16A,FCGR3A, FCG3, FCGR3, IGFR3,
Regulatory Status: RUO

Product Details

Application: FC
Format: Liquid, APC
Expression Host: HEK293
Species: Human
Sources: Recombinant Human CD16a (Gly17-Gln208, V176) with C-terminus His is expressed in HEK293 cell and conjugated to APC.
Accession Number: P08637
Molecular Weight: The protein has a predicted molecular weight of 25kDa. Under DTT-reducing conditions, it migrates at approximately 40–50 kDa on SDS-PAGE prior to APC conjugation.
Affinity Tag: C-His
Formulation: 1xPBS buffer, pH7.4, 0.09% NaN3 with a carrier protein
Endotoxin level: Not tested
Protein Concentration: 25µg size is bottled at 0.1mg/mL concentration. 100 µg size is bottled at lot specific concentration.
Storage and Handling: Briefly centrifuge the vial upon receipt. An unopened vial may be stored at 2–8°C for up to six months.

Background Information

CD16 is a low-affinity Fc receptor and exists in two isoforms: Fc?RIIIa (CD16a) and Fc?RIIIb (CD16b). These receptors bind to the Fc region of IgG antibodies with distinct tissue-specific expression pattern. CD16a is a transmembrane glycoprotein with intermediate affinity, expressed on natural killer (NK) cells, macrophages, subsets of T cells, immature thymocytes, and placental trophoblasts. In contrast, CD16b is a low-affinity, GPI-anchored receptor expressed primarily on neutrophils and eosinophils. CD16a plays a key role in mediating phagocytosis, antibody-dependent cellular cytotoxicity (ADCC), enzyme secretion, and immune complex clearance.