

## InnoCyto Inc.

15375 Barranca Pkwy, Suite I-103 Irvine, CA 92618

## **Technical Data Sheet**

Human CD16a F176 (C-His-Avi)

Catalog Number: 819301, 819302

Size: 25 ug, 100 ug

Target Name: CD16A, FCGR3A, FCG3, FCGR3, IGFR3

Regulatory Status: RUO

#### **Product Details**

Application: ELISA, BLI Format: Liquid, Purified Expression Host: CHO

Species: Human

Sources: Recombinant CD16a F176 (Gly17-Gln208) with C-terminus His-Avi-tag is expressed in

CHO cell.

Accession Number: P08637

Molecular Weight: The protein has a predicted molecular weight of 25.7 kDa. Under DTT-reducing

conditions, it migrates at approximately 40 kDa on SDS-PAGE.

**Affinity Tag:** C-His-Avi

Purity: >95% based on SDS-PAGE under reducing condition

Formulation: 1xPBS buffer, pH7.4, 0.22 µm filtered

Endotoxin level: Not tested

Protein Concentration: 25µg size is bottled at 0.2mg/mL concentration. 100 µg size is supplied at a

lot-specific concentration.

**Storage and Handling:** Briefly centrifuge the vial upon receipt. An unopened vial can be stored at  $4^{\circ}$ C for up to 2 weeks, or at -20°C or below for up to six months. The protein may be further diluted to 0.1 mg/mL using 0.22 µm-filtered PBS buffer (pH 7.4). For long-term storage, the diluted stock solution should be aliquoted and stored at <=  $-70^{\circ}$ C to minimize freeze-thaw cycles. If additional dilution is required, carrier proteins such as FBS or BSA should be added to maintain protein stability.

#### **Background Information**

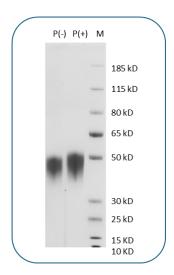
CD16 is a low-affinity Fc receptor and exists in two isoforms: Fc?RIIIa (CD16a) and Fc?RIIIb (CD16b). These receptors bind to the Fc region of IgG antibodies with distinct tissue-specific expression pattern. CD16a is a transmembrane glycoprotein with intermediate affinity, expressed on natural killer (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.

### **Product Data**



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Human CD16a F176 (C-His-Avi) on SDS-PAGE under reducing condition (P+) and non-reducing condition (P-). The gel was stained for 1 hour with BlinkBlue (catalog 700102). The purity of this protein appears to be greater than 95% based on reducing conditions.