

InnoCyto Inc.

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

Technical Data Sheet

Human CD32a R167 /Fc gamma RIIa (C-His)

Catalog Number: 820301, 820302

Size: 25 ug, 100 ug

Target Name: CD32a, FCGR2A, CD32, FCG2, FCGR2A1, IGFR2

Regulatory Status: RUO

Product Details

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

Species: Human

Sources: Recombinant CD32a R167 /Fc gamma RIIa (Ala 36 - Ile 218) with C-terminus His-tag is

expressed in CHO cell.

Accession Number: Q92835

Molecular Weight: The protein has a predicted molecular weight of 21.9 kDa. Under DTT-reducing

conditions, it migrates at approximately 35 kDa on SDS-PAGE.

Affinity Tag: C-His

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

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

Endotoxin level: Less than 0.1 EU/µg protein as determined by the LAL method

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° 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° 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

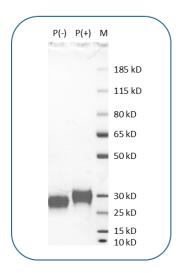
Fc?RII, or CD32, is a low-affinity receptor for IgG Fc region. In human, it is expressed as three isoforms (A, B, C). The activating isoform, Fc?RIIA (CD32a), is found on monocytes, macrophages, granulocytes, platelets, and mast cells. It features an extracellular domain, transmembrane region, and a cytoplasmic tail with a non-classical ITAM, crucial for dimerization and signaling. Fc?RIIA plays a key role in inflammation, phagocytosis, and platelet activation, influencing conditions like thrombocytopenia, rheumatoid arthritis, and lupus. Its activity is modulated by lipid rafts, and the receptor's affinity for IgG subclasses varies.

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Human CD32a R167 /Fc gamma RIIa (C-His) on SDS-PAGE under reducing condition (P+) and non-reducing condition (P-). The purity of this protein appears to be greater than 95%.