

Fc gamma RIIA/CD32a Protein, Human (Biotinylated, 183a.a, HEK293, His-Avi)

Cat. No.:	HY-P78100
Synonyms:	CD32MGC23887; CDw32fc-gamma-RIIa; Fc gamma RIIA; FCG2; Fc-gamma-RIIa; FcGR; FCGR2; FCGR2A; FCGR2A1; FcgRIIA; FCRIIA; fcRII-a; IGFR2MGC30032; IgG Fc receptor II-a; FCG2; CD32A
Species:	Human
Source:	HEK293
Accession:	P12318 (A36-I218, H167)
Gene ID:	2212
Molecular Weight:	30-40 kDa

PROPERTIES

Biological Activity	Rituximab captured on CM5 Chip via Protein A can bind Biotinylated Human Fc gamma RIIA(H167) His-Avi with an affinity constant of 0.680-1.2 μ M as determined in SPR assay.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μ m filtered solution of PBS, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The Fc gamma RIIA/CD32a protein assumes a pivotal role by specifically binding to the Fc region of immunoglobulins gamma, functioning as a low-affinity receptor. Through its interaction with IgG, Fc gamma RIIA/CD32a initiates cellular responses against pathogens and soluble antigens, illustrating its crucial involvement in immune modulation. Notably, the protein promotes the phagocytosis of opsonized antigens, further contributing to immune defense mechanisms. Additionally, Fc gamma RIIA/CD32a engages in interactions with IGHG1, INPP5D/SHIP1, INPPL1/SHIP2, APCS, FGR, and HCK, indicating its participation in intricate signaling pathways and the regulation of its cellular functions. These multifaceted interactions underscore the significance of Fc gamma RIIA/CD32a in orchestrating diverse immune responses.
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Caution: Product has not been fully validated for medical applications. For research use only.

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