

Fc gamma RIIA/CD32a Protein, Human (H167R, HEK293, Fc)

Cat. No.:	HY-P75644
Synonyms:	Low Affinity Immunoglobulin Gamma Fc Region Receptor II-a; CD32; FCGR2A; FCG2; IGFR2
Species:	Human
Source:	HEK293
Accession:	P12318 (Q34-I218, H167R)
Gene ID:	2212
Molecular Weight:	Approximately 55 kDa

PROPERTIES

Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized human CD32a-Fc at 10 µg/mL(100 µl/well) can bind biotinylated human IgG1 with a linear range of 0.625-10 µg/mL.
Appearance	Solution
Formulation	Supplied as a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

DESCRIPTION

Background	<p>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.</p> <p>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.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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