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

Cat. No.:	HY-P75645
Synonyms:	Low Affinity Immunoglobulin Gamma Fc Region Receptor II-a; CD32; FCGR2A; FCG2; IGFR2
Species:	Human
Source:	HEK293
Accession:	P12318 (A36-I218, H167R)
Gene ID:	2212
Molecular Weight:	Approximately 34-40 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized a 0.2 μm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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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