

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

Cat. No.:	HY-P70711
Synonyms:	Low affinity immunoglobulin gamma Fc region receptor II-a; IgG Fc receptor II-a; CDw32; Fc-gamma RII-a; Fc-gamma-RIIa; FcRII-a; CD32; FCGR2A; FCG2; FCGR2A1; IGFR2
Species:	Human
Source:	HEK293
Accession:	P12318-1 (A36-I218, H167)
Gene ID:	2212
Molecular Weight:	25-34 kDa

PROPERTIES

AA Sequence	<pre> A A P P K A V L K L E P P W I N V L Q E D S V T L T C Q G A R S P E S D S I Q W F H N G N L I P T H T Q P S Y R F K A N N N D S G E Y T C Q T G Q T S L S D P V H L T V L S E W L V L Q T P H L E F Q E G E T I M L R C H S W K D K P L V K V T F F Q N G K S Q K F S H L D P T F S I P Q A N H S H S G D Y H C T G N I G Y T L F S S K P V T I T V Q V P S M G S S S P M G I </pre>
Biological Activity	<ol style="list-style-type: none"> Loaded Human CD32a His on HIS1K Biosensor, can bind Anti-Human HER2 mAb with an affinity constant of 0.98 uM as determined in BLI assay. Immobilized Human CD32a at 10 µg/mL (100 µL/well) can bind Biotinylated Human IgG1 protein. The ED₅₀ for this effect is 3.612 µg/mL, corresponding to a specific activity is 2.77×10² Unit/mg.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS or 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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
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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.

Caution: Product has not been fully validated for medical applications. For research use only.

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