

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

Cat. No.:	HY-P78624
Synonyms:	CD32a; FCGR2A; CD32; FCG2 ; FCGR2A1; IGFR2
Species:	Rat
Source:	HEK293
Accession:	M0R4F7-1 (Q34-L216)
Gene ID:	498276
Molecular Weight:	28-40 kDa

PROPERTIES

AA Sequence	<p> Q T G D L L K A V V K R D P P W I Q V L K D D T V T L T C E G T H N P G N S S T Q W F H N Q S S T W G Q V Q A S Y T F K A T V N D S G E Y R C R M A H T S L S D P I H L E V I S D W L L L Q T P Q L V F E E G E T I T L R C H S W K N K Q L T K V L L F Q N G K P V R Y Y Y Q S S N F S I P K A N H S H S G N Y Y C K A Y L G R T M H V S K P V T I T V Q G S A T A S T S S L </p>
Biological Activity	Immobilized CD32a at 2 µg/mL (100 µL/well) can bind Biotinylated Human IgG1 protein. The ED ₅₀ for this effect is 9.252 µg/mL, corresponding to a specific activity is 1.08×10 ² Unit/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized a 0.22 µm filtered solution of PBS, 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 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.
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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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