

Fc gamma RIIB/CD32b Protein, Human (HEK293, His)

Cat. No.:	HY-P70491
Synonyms:	Low Affinity Immunoglobulin Gamma Fc Region Receptor II-b; IgG Fc Receptor II-b; CDw32; Fc-Gamma RII-b; Fc-Gamma-RIIb; FcRII-b; CD32; FCGR2B; FCG2; IGFR2
Species:	Human
Source:	HEK293
Accession:	P31994 (T43-P217)
Gene ID:	2213
Molecular Weight:	22-30 kDa

PROPERTIES

AA Sequence	<pre> T P A A P P K A V L K L E P Q W I N V L Q E D S V T L T C R G T H 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 V L R C H S W K D K P L V K V T F F Q N G K S K K F S R S D P N F S I P Q A N H S H S G D Y H C T G N I G Y T L Y S S K P V T I T V Q A P </pre>
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Human FcγRIIB, at 2 μg/mL (100 μL/well) can bind Biotinylated Human IgG1 protein. The ED ₅₀ for this effect is 753.3 ng/mL, corresponding to a specific activity is 1327.5 Unit/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2-7.4.
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	Fc gamma RIIB/CD32b Protein serves as a receptor for the Fc region of complexed or aggregated immunoglobulins gamma, displaying low affinity. It plays a pivotal role in various effector and regulatory functions, including the phagocytosis of immune complexes and the modulation of antibody production by B-cells. Upon binding to this receptor, there is a down-
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modulation of the preceding state of cell activation triggered through antigen receptors on B-cells (BCR), T-cells (TCR), or another Fc receptor. Notably, isoform IIB1 is unable to mediate endocytosis or phagocytosis, while isoform IIB2 does not induce phagocytosis. Fc gamma RIIB/CD32b interacts with INPP5D/SHP1, FcγR, and LYN.

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

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