

CD32a (FcγRIIa) Active Protein | CD32 active protein

Human CD32a Recombinant (FcγRIIa)

CATALOG #	HOST
AAA14417	HEK293 Cells (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)

PRODUCT SYNONYMS

CD32a (FcγRIIa); Human CD32a Recombinant (FcγRIIa); Human CD32a Recombinant (FcγRIIa) ; Human CD32a Recombinant (FcγRIIa) ; cd32; cd-32; CD32 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)
Purity/Purification	>95%, as determined by SDS-PAGE and HPLC
Form/Format	Recombinant CD32a is supplied as a lyophilized 0.2 um filtered PBS solution, pH7.2.
Sequence Length	317
Source	Optimized DNA sequence encoding Human extracellular domain of human CD32a including a C-terminal 6His tag was expressed in HEK293 cells.
Biological Activity	1 ug of immobilized CD32a was tested to bind human IgG2 in a range of 10-200ng/ml
Endotoxin	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/ug (1EU/ug).
Reconstitution	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL.
Molecular Weight Note	Recombinant CD32a is a monomer protein consisting of 192 amino acid residue subunits, due to glycosylation migrates as an approximately 25 kDa protein on SDS-PAGE.
Preparation and Storage	Lyophilized CD32a, as supplied, should be stored at -20 degree C to -70 degree C. Upon reconstitution, working aliquots may be stored at 2-8 degree C for one month, or six months at -20 degree C without detectable loss of activity. It is recommended to add 0.1% BSA for long term storage. Avoid repeated freeze/thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for CD32 active protein	FcγRIIA is expressed on cells of both myeloid and lymphoid lineages as well as on cells of non-hematopoietic origin. Associated with an ITAM (immunoreceptor tyrosine-based activation motif)-bearing adapter subunit, FcγR2, CD32a (FcγRIIA) delivers an activating signal upon ligand binding, and results in the initiation of inflammatory responses including cytolysis, phagocytosis, degranulation and cytokine production. The responses can be modulated by signals from the coexpressed inhibitory receptors such as FcγRIIB, and the strength of the signal is dependent on the ratio of expression of the activating and inhibitory receptors.
Product Categories/Family for CD32 active protein	Receptors CD
References	• dynamics of the interaction of human igg subtype immune complexes with cells expressing r and h allelic forms of a low-affinity fc receptor CD32a .J. Immunol., Dec 2009; 183: 8216 - 8224. • association of fcγrii (CD32a) with lipid rafts regulates ligand binding activity .J. Immunol., Jun 2009; 182: 8026 - 8036. • transgenic expression of human platelet fcγrii (CD32a) in mice does not affect the thrombocytopenia associated with wasp deficiency . Blood (ASH Annual Meeting Abstracts), Nov 2006; 108: 1106.

NCBI AND UNIPROT INFORMATION

NCBI GI #	210031822
NCBI GeneID	2212
NCBI Accession #	NP_001129691.1
NCBI GenBank Nucleotide #	NM_001136219.1
UniProt Accession #	P12318; Q8WUN1; Q8WW64; Q8TEX8
Molecular Weight	35,001 Da
NCBI Official Full Name	low affinity immunoglobulin gamma Fc region receptor II-a isoform 1
UniProt Protein Name	Low affinity immunoglobulin gamma Fc region receptor II-a
UniProt Gene Name	FCGR2A
UniProt Synonym Gene Names	CD32; FCG2; FCGR2A1; IGFR2; IgG Fc receptor II-a; Fc-gamma-RIIa; FcRII-a
UniProt Entry Name	FCG2A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hek293-cells-cd32-active-protein/cd32a-fcgriia/14417>