



Recombinant Human CD32a (H167,C-6His)

Catalog #	EPT162
Expression Host	Human Cells
DESCRIPTION	Recombinant Human Low Affinity Immunoglobulin Gamma Fc Region Receptor II-A(H167) is produced by our Mammalian expression system and the target gene encoding Ala36-Ile218 is expressed with a 6His tag at the C-terminus. It is identical to FCGR2A131H/R in the reference.
Accession	P12318
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
Mol Mass	21.1 KDa
AP Mol Mass	25-32 KDa, reducing conditions
Purity	Greater than 95% as determined by reducing SDS-PAGE.





Endotoxin

Less than 0.1 ng/ μ g (1 EU/ μ g) as determined by LAL test.

FORMULATION

Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4.

RECONSTITUTION

Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

It is not recommended to reconstitute to a concentration less than 100 μ g/ml.

Dissolve the lyophilized protein in distilled water.

Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

SHIPPING

The product is shipped at ambient temperature.

Upon receipt, store it immediately at the temperature listed below.

STORAGE

Lyophilized protein should be stored at $< -20^{\circ}\text{C}$, though stable at room temperature for 3 weeks.

Reconstituted protein solution can be stored at $4-7^{\circ}\text{C}$ for 2-7 days.

Aliquots of reconstituted samples are stable at $< -20^{\circ}\text{C}$ for 3 months.

BACKGROUND

Human Fc γ Rs are divided into three classes designated Fc γ RI (CD64), Fc γ RII (CD32), and Fc γ RIII





(CD16), which generate multiple isoforms, are recognized. The activating- type receptor either has or associates non-covalently with an accessory subunit that has an immunoreceptor tyrosine-based activation motif (ITAM) in its cytoplasmic domain. Fc γ RI binds IgG with high affinity and functions during early immune responses, whereas Fc γ RII and RIII are low affinity receptors that recognize IgG as aggregates surrounding multivalent antigens during late immune responses. Human CD32, also known as Low affinity immunoglobulin γ Fc region receptor II-a (IgG Fc receptor II-a), Fc γ RII A or FCGR2A Protein, is expressed on cells of both myeloid and lymphoid lineages as well as on cells of non-hematopoietic origin. Associated with an ITAM-bearing adapter subunit, FcR γ , CD32a (Fc γ RII A) 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 co-expressed inhibitory receptors such as Fc γ RII B, and the strength of the signal is dependent on the

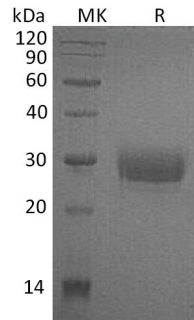




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ratio of expression of the activating and inhibitory receptors.

SDS-PAGE



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