

Datasheet for ABIN1096627

FCGR2A Protein (AA 34-219) (His tag)[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	FCGR2A
Protein Characteristics:	AA 34-219
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FCGR2A protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Fc γ RIIa/FCGR2A/CD32a (C-6His)
Sequence:	APPKAVLKLE PPWINVLQED SVTLTCQGAR SPESDSIQWF HNGNLIPTHT QPSYRFKANN NDSGEYTCQT GQTSLSDPVH LTVLSEWLVL QTPHLEFQEG ETIMLRCHSW KDKPLVKVTF FQNGKSQKFS RLDPTFSIPQ ANHSHSGDYH CTGNIGYTLF SSKPVTITVQ VPSMGSSSPM GIIVDHHHHH H
Characteristics:	Recombinant Human FcγRIIA/FCGR2A is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Gln34-Val219) of Human FCGR2A fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	FCGR2A
Alternative Name:	cd32a (FCGR2A Products)
Sub Type:	Fusionprotein
Background:	<p>Receptors for the Fc region of IgG (FcgammaR) are members of the Ig superfamily that function in the activation or inhibition of immune responses. Human FcgammaRs are divided into three classes designated FcgammaRI (CD64), FcgammaRII (CD32), and FcgammaRIII (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. FcgammaRI binds IgG with high affinity and functions during early immune responses, whereas FcgammaRII and RIII are low affinity receptors that recognize IgG as aggregates surrounding multivalent antigens during late immune responses. Three genes for human FcgammaRII (A, B, and C) and one for mouse (FcgammaRIIB), encoding type I transmembrane proteins with ITAM motifs (FcgammaRII A and C) or ITIM motifs (FcgammaRIIB) in their cytoplasmic domains, have been identified. Human CD32, also known as Low affinity immunoglobulin gamma Fc region receptor II-a (IgG Fc receptor II-a), FcgammaRII 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, FcRgamma, CD32a (FcgammaRII 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 Fcgamma RII B, and the strength of the signal is dependent on the ratio of expression of the activating and inhibitory receptors.</p> <p>ReferencesKustiawan I, et al. Preventing adsorption of immunoglobulin G to solid surfaces using poloxamer 407 eliminates artifactual stimulation of neutrophils.PMID: 23545494 http://www.ncbi.nlm.nih.gov/pubmed/23545494</p> <p>Alternative Names: 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, CD32, FCG2, FCGR2A1, IGFR2</p>
Molecular Weight:	21.61kDa
UniProt:	P12318

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH₂O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	<p>Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>
Expiry Date:	3 months