

## 32-8920: Recombinant Human Fc gamma RIIa/FCGR2A/CD32a (C-6His,H131)(Discontinued)

**Gene :** FCGR2A

**Gene ID :** 2212

**Uniprot ID :** P12318

### Description

Source: Human cells.

MW :21.1kD.

Recombinant Human Low Affinity Immunoglobulin Gamma Fc Region Receptor II-A is produced by our Mammalian expression system and the target gene encoding Ala36-Ile218(His131Arg) is expressed with a 6His tag at the C-terminus. Human Fc gamma Rs are divided into three classes designated Fc gamma RI (CD64), Fc gamma RII (CD32), and Fc gamma 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 gamma RI binds IgG with high affinity and functions during early immune responses, whereas Fc gamma 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 gamma Fc region receptor II-a (IgG Fc receptor II-a), Fc gamma 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 gamma , CD32a (Fc gamma 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 gamma RII B, and the strength of the signal is dependent on the ratio of expression of the activating and inhibitory receptors.

### Product Info

**Amount :** 10 µg / 50 µg

**Content :** Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.

**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.

**Amino Acid :** AAPPKAVLKLEPPWINVLQEDSVLTCQGARSPESDSIQWFHNGNLIPTHTQPSYRFKANNNDSGEYTCQTGQ  
TSLSDPVHLTVLSEWLVLQTPHLEFQEGETIMLRCHSWKDKPLVKVTFQNGKSQKFSHLDPTFSIPQANHSHS  
GDYHCTGNIGYTLFSSKPVITVQVPSMGSSSPMGIHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.