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## Product Datasheet

### Recombinant Human CD32a (H167,C-6His) EBT-EPT162

Article Name	Recombinant Human CD32a (H167,C-6His)
Biozol Catalog Number	EBT-EPT162
Supplier Catalog Number	EPT162
Alternative Catalog Number	EBT-EPT162-10
Manufacturer	ELK Biotechnology
Category	Proteine/Peptide
Product 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...
Molecular Weight	Molecular weight: 21.1 KDa. Apparent molecular weight: 25-32 KDa, reducing conditions
UniProt	<a href="#">P12318</a>
Purity	Greater than 95% as determined by reducing SDS-PAGE.

#### Application Notes

Redissolve: Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.. Endotoxin: Less than 0.1 ng/µg (1 EU/µg) as determined by LAL test. Biological activity: Loaded Human CD32a-His(CatCS35) on HIS1K Biosensor, can bind Anti-Human HER2 mAb(CatGMP-A062) with an affinity constant of 0.6 µM as determined in BLI assay.. Background: Human Fcγ receptors are divided into three classes designated FcγRI (CD64), FcγRII (CD32), and FcγRIII (CD16), which generate multiple isoforms, are recognized. The activating type receptor either has or associates noncovalently with an accessory subunit that has an immunoreceptor tyrosine-based activation motif (ITAM) in its cytoplasmic domain. FcγRI binds IgG with high affinity and functions during early immune responses, whereas FcγRII 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), FcγRII 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, FcRγ, CD32a (FcγRII 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 FcγRII B, and the strength of the signal is dependent on the ratio of expression of the activating and inhibitory receptors