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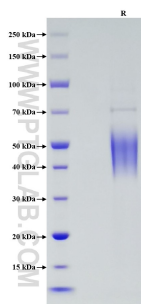
# Recombinant Human FCGR3A/CD16a (F176V) protein (Myc Tag, His Tag)



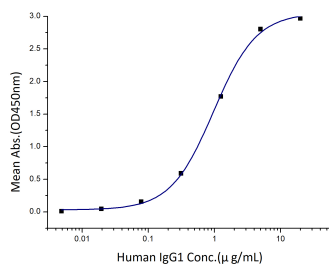
Catalog Number: Eg31662

Basic Information	<b>Species:</b> Human <b>EC50:</b> 0.5-2 µg/mL	<b>Purity:</b> >90 %, SDS-PAGE	<b>Tag:</b> Myc Tag, His Tag
Technical Specifications	<b>Purity:</b> >90 %, SDS-PAGE <b>Endotoxin Level:</b> <0.1 EU/ µg protein, LAL method <b>Source:</b> HEK293-derived Human FCGR3A protein Gly17-Gln208 (Accession# P08637, F176V) with a Myc tag and a His tag at the C-terminus. <b>GeneID:</b> 2214 <b>Accession:</b> P08637 <b>Predicted Molecular Mass:</b> 24.3 kDa <b>SDS-PAGE:</b> 38-60 kDa, reducing (R) conditions <b>Formulation:</b> Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.		
Biological Activity	Immobilized Human FCGR3A (F176V) (Myc tag, His tag) at 2 µg/mL (100 µL/well) can bind Human IgG1 with a linear range of 0.5-2 µg/mL.		
Storage and Shipping	<b>Storage:</b> It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"><li>• Until expiry date, -20°C to -80°C as lyophilized proteins.</li><li>• 3 months, -20°C to -80°C under sterile conditions after reconstitution.</li></ul> <b>Shipping:</b> The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	CD16, also known as the low affinity Fc gamma receptor III for IgG (Fc γ RIII), exists in two isoforms, Fc γ RIIIa (CD16a) and Fc γ RIIIb (CD16b), encoded by two nearly identical genes, FCGR3A and the FCGR3B. CD16a is expressed on NK cells, macrophages, and placental trophoblasts as a polypeptide-anchored transmembrane protein while CD16b is expressed on neutrophils in a glycosylphosphatidylinositol (GPI)-anchored form. CD16a forms a heteromeric structure with the Fc epsilon RI (gamma) and/or CD3 (zeta) subunits. CD16 mediates antibody-dependent cellular cytotoxicity (ADCC) and other antibody-dependent responses, such as phagocytosis.		
References	<ol style="list-style-type: none"><li>1. S Nagarajan, et al. (1995) J Biol Chem. 270(43):25762-70.</li><li>2. J E Gessner, et al. (1995) J Biol Chem. 270(3):1350-61.</li></ol>		
Synonyms	CD16, CD16A, CD16a antigen, CD16-II, Fc gamma RIII		

## Selected Validation Data



Purity of Recombinant Human FCGR3A (F176V) was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.



Immobilized Human FCGR3A (F176V) (Myc tag, His tag) at 2 μg/mL (100 μL/well) can bind Human IgG1 with a linear range of 0.5-2 μg/mL.

For technical support and original validation data for this product please contact

T: 027-87531629

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

W: [ptgcn.com](http://ptgcn.com)

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