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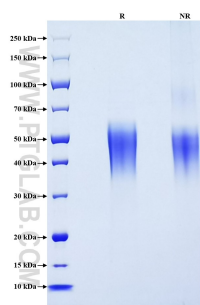
# Recombinant Human FCGR3B/CD16b protein (His Tag)



Catalog Number: Eg0308

Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: His Tag
Technical Specifications	<p><b>Purity:</b> &gt;90 %, SDS-PAGE</p> <p><b>Endotoxin Level:</b> &lt;0.1 EU/ <math>\mu</math>g protein, LAL method</p> <p><b>Source:</b> HEK293-derived Human FCGR3B protein Gly17-Ser200 (Accession# AAI28563) with a His tag at the C-terminus.</p> <p><b>GeneID:</b> 2215</p> <p><b>Accession:</b> AAI28563</p> <p><b>Predicted Molecular Mass:</b> 24.6 kDa</p> <p><b>SDS-PAGE:</b> 38-60 kDa, reducing (R) conditions</p> <p><b>Formulation:</b> Lyophilized from 0.22 <math>\mu</math>m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.</p>		
Biological Activity	Not tested		
Storage and Shipping	<p><b>Storage:</b> It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <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> <p><b>Shipping:</b> The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.</p>		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	<p>CD16 is a low affinity Fc receptor. It has been identified as Fc receptors Fc <math>\gamma</math> RIIIa (CD16a) and Fc <math>\gamma</math> RIIIb (CD16b), encoded by two nearly identical genes, FCGR3A and FCGR3B. In humans, Fc <math>\gamma</math> RIIIa/CD16a is a type I transmembrane receptor expressed on macrophages and NK cells. Fc <math>\gamma</math> RIIIb/CD16b is a GPI-linked Fc-receptor highly expressed on neutrophils. The two proteins differ by only four amino acid residues in the mature proteins.</p>		
References	<ol style="list-style-type: none"><li>1. Jacob T Roberts.et al.(2018) J Biol Chem. 293(51):19899-19908.</li><li>2. T E Williams.et al. (2000) Biophys J. 79(4):1858-66.</li></ol>		
Synonyms	CD16, CD16b, FCGR3B, Fc gamma RIII, Fc gamma RIII beta		

## Selected Validation Data



Purity of Recombinant Human FCGR3B was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

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

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