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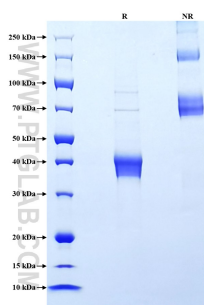
# Recombinant Human Apolipoprotein A II protein (rFc Tag)



Catalog Number: Eg3085

Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: rFc 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 Apolipoprotein A II protein Ala19-Gln100 (Accession# P02652) with a rabbit IgG Fc tag at the C-terminus.</p> <p><b>GeneID:</b> 336</p> <p><b>Accession:</b> P02652</p> <p><b>Predicted Molecular Mass:</b> 35.3 kDa</p> <p><b>SDS-PAGE:</b> 35-42 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>Apolipoprotein A2 (Apo-A2) is the second major protein of the HDL-C particles and comprises about 20% of the total HDL-C protein content. It is primarily synthesized by liver. The predicted MW of ApoA2 is 11 kDa, while the mature form is smaller (7-10 kDa) since the signal peptide was cleaved. In humans, most of circulating apoA2 exist as dimer. Five types of APOA2 dimer exist: homodimer apoA2-ATQ/ATQ, heterodimer apoA2-ATQ/AT, homodimer apoA2-AT/AT, apoA2-AT/A, and apoA2-A/A. ApoA2 isoforms are considered to be some of the most promising serum/plasma biomarkers for aiding the early detection of pancreatic cancer.</p>		
References	<ol style="list-style-type: none"><li>1.Bandarian F. et al. (2016) Iranian biomedical journal. 20(2), 84-90.</li><li>2.Moradi M. et al. (2017) Clinical Nutrition. 30, 1e5.</li><li>3.Ding, X. et al. (2018) Exp anim tokyo. 67(2):105-115.</li><li>4.Kobayashi, T. et al. (2018) Biochem bioph res co. 497(3):903-907.</li></ol>		
Synonyms	APOA2, apolipoprotein A II, Apo AII, ApoA II, Apo-AII		

## Selected Validation Data



Purity of Recombinant Human Apolipoprotein A II 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.