

For Research Use Only

Recombinant Mouse Atp1b1 protein (rFc Tag)



Catalog Number: Eg3007

Basic Information	Species: Mouse	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications	<p>Purity: >90 %, SDS-PAGE</p> <p>Endotoxin Level: <1.0 EU/μg protein, LAL method</p> <p>Source: HEK293-derived Mouse Atp1b1 protein Glu63-Ser304 (Accession# P14094) with a rabbit IgG Fc tag at the C-terminus.</p> <p>GeneID: 11931</p> <p>Accession: P14094</p> <p>Predicted Molecular Mass: 53.7 kDa</p> <p>SDS-PAGE:</p> <p>Formulation: Lyophilized from sterile 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>Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none">• Until expiry date, -20°C to -80°C as lyophilized proteins.• 3 months, -20°C to -80°C under sterile conditions after reconstitution. <p>Shipping: 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>ATP1B1 is one of beta subunits of the Na⁺/K⁺ ATPase and responsible for formation and structural integrity of the Na⁺/K⁺ ATPase, which is a plasma membrane pump consisting of alpha, beta, and gamma subunits. ATP1B1 plays an important role in maintaining the normal gradients of Na⁺ and K⁺ across plasma membrane. ATP1B1 also plays an active role during the pathogenesis of leukemia and overexpression of ATP1B1 may also predict a poor prognosis in CN-AML patients. ATP1B1 is a useful biomarker for the clinical diagnosis and prognosis of DLBCL</p>		
References	<ol style="list-style-type: none">1. Xiao, Bing et al. Clinica chimica acta; international journal of clinical chemistry vol. 407,1-2 (2009): 47-50.2. Shi, Jin-long et al. Oncotarget vol. 7,3 (2016): 2585-95.3. Zhang, Shuo et al. Annals of translational medicine vol. 10,20 (2022): 1136.		
Synonyms	ATP1B 1, Atp4b, Beta 1 subunit of Na(+) K(+) ATPase, Na, K-ATPase β1, Na ⁺ /K ⁺ ATPase beta 1 subunit		
For technical support and original validation data for this product please contact			
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Selected Validation Data