

Recombinant Mouse ATP1b1, His-tagged

Cat. No. ATP1b1-3766M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ATPase, Na ⁺ /K ⁺ Transporting Beta 1 Polypeptide (ATP1b1)
Species	Mouse
Source	E.coli
ProteinLength	304
Description	This gene encodes an integral membrane protein that comprises a subunit of an ATP-metabolizing enzyme responsible for transporting sodium and potassium ions across the plasma membrane. This enzyme regulates the electrochemical gradient of these ions in cells, and plays a central role in osmoregulation and signal transmission in nerves and muscles, among other biological processes. The encoded protein is the non-catalytic beta subunit; it works together with a catalytic alpha subunit and a gamma subunit.
Form	Supplied as lyophilized form in PBS,pH7.4, containing 5% sucrose, 0.01% sarcosyl.
Molecular Mass	30.7kDa
Endotoxin	<1.0eu per 1ug (determined by the lal</1.0eu
Purity	>95%
Applications	SDS-PAGE, Western Blot (WB), ELISA (EIA), Immunoprecipitation (IP)

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Notes	Small volumes of ATP1b1 recombinant protein may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container's cap. Certain products may require to ship with dry ice.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Reconstitution	Reconstitute in sterile PBS, pH 7.2-7.4.
Warning	This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GENE INFORMATION

Gene Name	Atp1b1 ATPase, Na⁺/K⁺ transporting, beta 1 polypeptide [Mus musculus]
Official Symbol	ATP1b1
Synonyms	ATP1B1; ATPase, Na ⁺ /K ⁺ transporting, beta 1 polypeptide; sodium/potassium-transporting ATPase subunit beta-1; sodium/potassium ATPase beta subunit; sodium/potassium-dependent ATPase subunit beta-1; Atpb; Atpb-1;
Gene ID	11931
mRNA Refseq	NM_009721

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Protein Refseq	NP_033851
Chromosome Location	1 H2.2; 1 71.75 cM
Pathway	Aldosterone-regulated sodium reabsorption, organism-specific biosystem; Aldosterone-regulated sodium reabsorption, conserved biosystem; Basigin interactions, organism-specific biosystem; Bile secretion, organism-specific biosystem; Bile secretion, conserv
Function	protein binding; sodium:potassium-exchanging ATPase activity;

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