

Recombinant Human ATP6V1B2 293 Cell Lysate

Cat. No. ATP6V1B2-8583HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for ATPase, H ⁺ transporting, lysosomal 56/58kDa, V1 subunit B2 (ATP6V1B2) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	ATP6V1B2 ATPase, H ⁺ transporting, lysosomal 56/58kDa, V1 subunit B2 [Homo sapiens]
Official Symbol	ATP6V1B2
Synonyms	ATP6V1B2; ATPase, H ⁺ transporting, lysosomal 56/58kDa, V1 subunit B2; ATP6B2, ATPase, H ⁺ transporting, lysosomal (vacuolar proton pump), beta polypeptide, 56/58kD, isoform 2 , ATPase, H ⁺ transporting, lysosomal 56/58kDa, V1 subunit B, isoform 2 , VPP3; V-type proton ATPase subunit B, brain isoform; HO57; VATB; Vma2; V-ATPase B2 subunit; V-ATPase subunit B 2; vacuolar proton pump subunit B 2; H ⁺ transporting two-sector ATPase; vacuolar H ⁺ -ATPase 56,000 subunit; endomembrane proton pump 58 kDa subunit; VPP3; ATP6B2; ATP6B1B2;
Gene ID	526
mRNA Refseq	NM_001693
Protein Refseq	NP_001684
MIM	606939
UniProt ID	P21281
Chromosome Location	8p21.3

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Pathway

Collecting duct acid secretion, organism-specific biosystem; Collecting duct acid secretion, conserved biosystem; Epithelial cell signaling in Helicobacter pylori infection, organism-specific biosystem; Epithelial cell signaling in Helicobacter pylori infection, conserved biosystem; Insulin receptor recycling, organism-specific biosystem; Iron uptake and transport, organism-specific biosystem; Metabolic pathways, organism-specific biosystem;

Function

ATP binding; hydrogen ion transmembrane transporter activity; hydrogen ion transporting ATP synthase activity, rotational mechanism; hydrolase activity; hydrolase activity, acting on acid anhydrides, catalyzing transmembrane movement of substances; proton-transporting ATPase activity, rotational mechanism;