

Recombinant Human ATP6V1G2 293 Cell Lysate

Cat. No. ATP6V1G2-8576HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for ATPase, H ⁺ transporting, lysosomal 13kDa, V1 subunit G2 (ATP6V1G2), transcript variant 2 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 [ATP6V1G2 ATPase, H⁺ transporting, lysosomal 13kDa, V1 subunit G2 \[Homo sapiens \]](#)

Official Symbol ATP6V1G2

Synonyms ATP6V1G2; ATPase, H⁺ transporting, lysosomal 13kDa, V1 subunit G2; ATP6G, ATP6G2, ATPase, H⁺ transporting, lysosomal (vacuolar proton pump) , ATPase, H⁺ transporting, lysosomal 13kDa, V1 subunit G isoform 2; V-type proton ATPase subunit G 2; Em:AC004181.3; NG38; Vma10; V-ATPase 13 kDa subunit 2; vacuolar proton pump G subunit 2; vacuolar ATP synthase subunit G 2; H(+)-transporting two-sector ATPase, subunit G2; ATPase, H⁺ transporting, lysosomal (vacuolar proton pump); ATP6G; VMA10; ATP6G2;

Gene ID [534](#)

mRNA Refseq [NM_001204078](#)

Protein Refseq [NP_001191007](#)

MIM [606853](#)

UniProt ID [O95670](#)

Chromosome Location 6p21.3

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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

hydrolase activity, acting on acid anhydrides, catalyzing transmembrane movement of substances;