Recombinant Human ATP6V1G1 293 Cell Lysate

Cat. No. ATP6V1G1-8577HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for ATPase, H+ transporting, lysosomal 13kDa, V1 subunit G1 (ATP6V1G1) 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.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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	ATP6V1G1 ATPase, H+ transporting, lysosomal 13kDa, V1 subunit G1 [Homo sapiens]
Official Symbol	ATP6V1G1
Synonyms	ATP6V1G1; ATPase, H+ transporting, lysosomal 13kDa, V1 subunit G1; ATP6G1, ATP6J, ATPase, H+ transporting, lysosomal (vacuolar proton pump), member J , ATPase, H+ transporting, lysosomal 13kDa, V1 subunit G isoform 1; V-type proton ATPase subunit G 1; ATP6G; ATP6GL; DKFZp547P234; Vma10; V-ATPase subunit G 1; V-ATPase 13 kDa subunit 1; vacuolar H(+)-ATPase subunit G 1; vacuolar proton pump subunit G 1; vacuolar proton pump subunit M16; vacuolar ATP synthase subunit M16; ATPase, H+ transporting, lysosomal (vacuolar proton pump), member J; ATP6J; ATP6G1;
Gene ID	9550
mRNA Refseq	NM_004888
Protein Refseq	NP_004879
MIM	607296
UniProt ID	O75348
Chromosome	9q33.1

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Location	
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	ATPase activity; ATPase binding; hydrogen-exporting ATPase activity, phosphorylative mechanism; hydrolase activity, acting on acid anhydrides, catalyzing transmembrane movement of substances;

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