

Recombinant Human ATP5G1 293 Cell Lysate

Cat. No. ATP5G1-8600HCL **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit C1 (subunit 9) (ATP5G1), nuclear gene encoding mitochondrial protein, 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.
Applications	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil

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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	ATP5G1 ATP synthase, H ⁺ transporting, mitochondrial Fo complex, subunit C1 (subunit 9) [Homo sapiens]
Official Symbol	ATP5G1
Synonyms	ATP5G1; ATP synthase, H ⁺ transporting, mitochondrial Fo complex, subunit C1 (subunit 9); ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit c (subunit 9), isoform 1 , ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit C1 (subunit 9) , ATP5G; ATP synthase lipid-binding protein, mitochondrial; ATPase protein 9; ATPase subunit 9; ATPase subunit C; ATP synthase proteolipid P1; mitochondrial ATP synthase, subunit 9, isoform 1; mitochondrial ATP synthase, subunit C, isoform 1; ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit C1 (subunit 9); ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit c (subunit 9), isoform 1; ATP5A; ATP5G;
Gene ID	516
mRNA Refseq	NM_001002027
Protein Refseq	NP_001002027
MIM	603192
UniProt ID	P05496
Chromosome	17q21.32

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Location**Pathway**

Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Electron Transport Chain, organism-specific biosystem; F-type ATPase, eukaryotes, organism-specific biosystem; Formation of ATP by chemiosmotic coupling, organism-specific biosystem; Huntingtons disease, organism-specific biosystem; Huntingtons disease, conserved biosystem;

Function

hydrogen ion transmembrane transporter activity; lipid binding; transporter activity;

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