

Recombinant Human ATP5A1 293 Cell Lysate

Cat. No. ATP5A1-8606HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Human

Source HEK293

Description

Antigen standard for ATP synthase, H⁺ transporting, mitochondrial F1 complex, alpha subunit 1, cardiac muscle (ATP5A1), 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.

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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

ATP5A1 ATP synthase, H⁺ transporting, mitochondrial F1 complex, alpha subunit 1, cardiac muscle [Homo sapiens]

Official Symbol

ATP5A1

Synonyms

ATP5A1; ATP synthase, H⁺ transporting, mitochondrial F1 complex, alpha subunit 1, cardiac muscle; ATP synthase, H⁺ transporting, mitochondrial F1 complex, alpha subunit, isoform 1, cardiac muscle , ATP synthase, H⁺ transporting, mitochondrial F1 complex, alpha subunit, isoform 2, non cardiac muscle like 2 , ATP5AL2, ATPM; ATP synthase subunit alpha, mitochondrial; ATP5A; hATP1; OMR; ORM; ATP sythase (F1-ATPase) alpha subunit; ATP synthase alpha chain, mitochondrial; mitochondrial ATP synthetase, oligomycin-resistant; ATP synthase, H⁺ transporting, mitochondrial F1 complex, alpha subunit, isoform 1, cardiac muscle; ATP synthase, H⁺ transporting, mitochondrial F1 complex, alpha subunit, isoform 2, non-cardiac muscle-like 2; ATPM; MOM2; ATP5AL2;

Gene ID

498

mRNA Refseq

NM_001001935

Protein Refseq

NP_001001935

MIM

164360

UniProt ID

P25705

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Chromosome Location	18q21
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	ADP binding; ATP binding; contributes_to ATPase activity; MHC class I protein binding; eukaryotic cell surface binding; hydrogen ion transporting ATP synthase activity, rotational mechanism; hydrolase activity, acting on acid anhydrides, catalyzing transmembrane movement of substances; nucleotide binding; protein binding; proton-transporting ATPase activity, rotational mechanism; transmembrane transporter activity;

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