Recombinant Human ATP5G1, GST-tagged

Cat. No. ATP5G1-48H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ATP5G1(18 a.a. - 136 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
Description	This gene encodes a subunit of mitochondrial ATP synthase. Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. ATP synthase is composed of two linked multi-subunit complexes: the soluble catalytic core, F1, and the membrane-spanning component, Fo, comprising the proton channel. The catalytic portion of mitochondrial ATP synthase consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled with a stoichiometry of 3 alpha, 3 beta, and a single representative of the other 3. The proton channel seems to have nine subunits (a, b, c, d, e, f, g, F6 and 8). This gene is one of three genes that encode subunit c of the proton channel. Each of the three genes have distinct mitochondrial import sequences but encode the identical mature protein. Alternatively spliced transcript variants encoding the same protein have been identified.
Molecular Mass	38.83 kDa
AA Sequence	TRGLIRPVSASFLSSPVNSSKQPSYSNFPLQVARREFQTSVVSRDIDTAAKFIGAGAA TVGVAGSGAGIGTVFGS LIIGYARNPSLKQQLFSYAILGFALSEAMGLFCLMVAFLILF

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Applications	ELISA; WB-Re; AP; Array
Storage	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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

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MIM	603192
UniProt ID	P05496
Chromosome Location	17q21.32
Pathway	Alzheimers disease; Electron Transport Chain; F-type ATPase, eukaryotes
Function	hydrogen ion transmembrane transporter activity; lipid binding; transporter activity

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