

Product datasheet for **AP50298PU-N**

ATP5F1C (N-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	FC, IHC, WB
Recommended Dilution:	ELISA: 1/1000. Western blotting: 1/100 - 1/500. Immunohistochemistry on paraffin sections: 1/50 - 1/100. Flow cytometric: 1/10 - 1/50.
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 46~76 amino acids from the N-terminal region of human ATP5C1
Specificity:	This antibody reacts to ATP synthase subunit gamma.
Formulation:	PBS containing 0.09% (W/V) sodium azide as preservative State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Affinity chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	ATP synthase, H ⁺ transporting, mitochondrial F1 complex, gamma polypeptide 1
Database Link:	Entrez Gene 509 Human P36542



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Background:

ATP5C1 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, F_o, 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.

Synonyms:

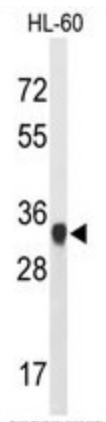
ATP5C1, ATP5C, ATP5CL1, F1F0-ATPase gamma subunit, Complex V gamma subunit

Note:

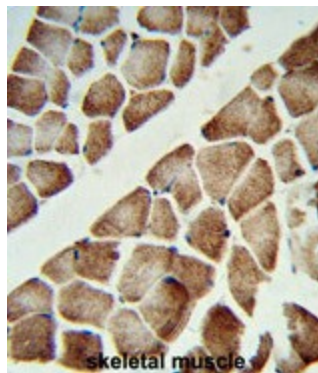
Molecular Weight: 32996 Da

Protein Pathways:

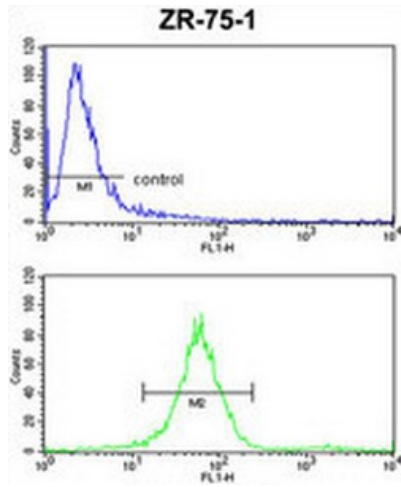
Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

Product images:


Western blot analysis of ATP5C1 Antibody (N-term) in HL-60 cell line lysates (35ug/lane). ATP5C1 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human skeletal muscle reacted with ATP5C1 Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



ATP5C1 Antibody (N-term) FC analysis of ZR-75-1 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.