

Product datasheet for **AP17895PU-N**

ATP5F1B (Center) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	FC, IHC, WB
Recommended Dilution:	ELISA: 1/1,000. Western blotting: 1/1000. Flow Cytometry: 1/10-1/50. Immunohistochemistry: 1/50-1/100.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 135~163 amino acids from the Center region of Human ATP5B.
Specificity:	This antibody recognizes ATP synthase subunit beta.
Formulation:	PBS containing 0.09% (W/V) Sodium Azide as preservative 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, beta polypeptide
Database Link:	Entrez Gene 506 Human P06576



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Background:

ATP5B is 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 consists of three main subunits (a, b, c). It is the beta subunit of the catalytic core.

Synonyms:

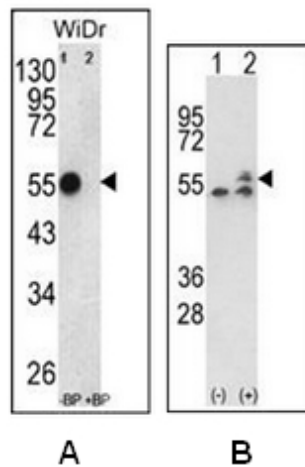
F1F0 ATP synthase, Complex V, ATP5B, ATPMB, ATPSB

Protein Families:

Druggable Genome

Protein Pathways:

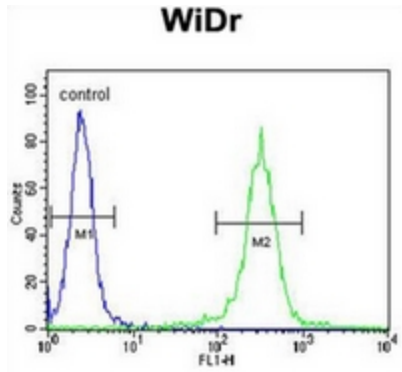
Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

Product images:


A: Western blot analysis of ATP5B Antibody (Center) pre-incubated without (lane 1) and with (lane 2) blocking peptide in WiDr cell line lysate. ATP5B (arrow) was detected using the purified Pab (1:60/250 dilution). B: Western blot analysis of ATP5B (arrow) using Rabbit polyclonal ATP5B Antibody (Center). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the ATP5B gene (Lane 2).



Formalin-fixed and paraffin-embedded human brain tissue reacted with ATP5B Antibody (Center), 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.



Flow Cytometric analysis of WiDr cells (right histogram) compared to a negative control cell using ATP5B Antibody (Center) (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.