Datasheet for ABIN453526

anti-ATP Synthase Subunit beta (AtpB) (AA 142-171), (Middle Region), (Subunit beta) antibody

3 Images

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Overview

Quantity:	0.4 mL
Target:	ATP Synthase Subunit beta (AtpB)
Binding Specificity:	AA 142-171, Middle Region, Subunit beta
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	Un-conjugated
Application:	Enzyme Immunoassay (EIA), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Western Blotting (WB)

Product Details

Immunogen:	KLH conjugated synthetic peptide between 142~171 amino acids from the Center region of Human ATP5B. Genename: ATP5B
Specificity:	This antibody recognizes ATP synthase subunit beta.
Purification:	Affinity Chromatography on Protein A

Target Details

Target:	ATP Synthase Subunit beta (AtpB)
Alternative Name:	ATP Synthase Subunit beta (AtpB Products)
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

Target Details

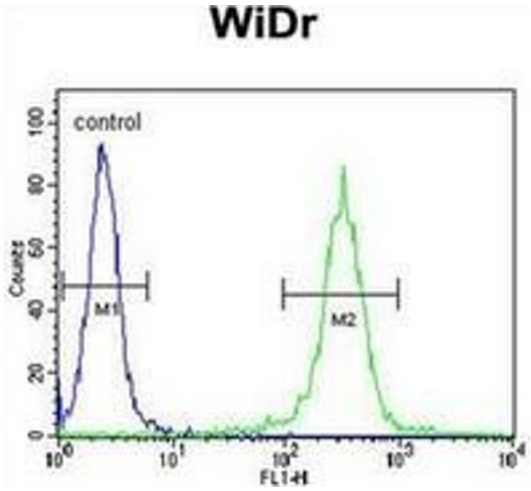
	oxidative phosphorylation. ATP synthase is composed of two linked multi-subunit complexes: the soluble catalytic core, F1, and the membrane-spanning component, Fo, comprising the proton channel. The catalytic portion of mitochondrial ATP synthase consists of 5 different subunits (alpha, beta, gamma, 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: ATP Synthase subunit F1F0-beta, ATP synthase, ATP5B, ATPMB, ATPSB, Complex V, F1F0 ATP synthase, H+ transporting, beta polypeptide, mitochondrial F1 complex
Gene ID:	506
NCBI Accession:	NP_001677
UniProt:	P06576
Pathways:	Proton Transport, Ribonucleoside Biosynthetic Process

Application Details

Application Notes:	ELISA: 1/1,000. Western blotting: 1/100 - 1/500. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.25 mg/mL
Buffer:	PBS containing 0.09 % (W/V) Sodium Azide as preservative
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.

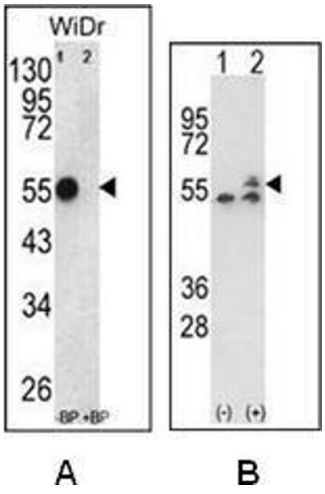


Flow Cytometry

Image 1. Flow Cytometric analysis of WiDr cells (right histogram) compared to a negative control cell using ATP5B Antibody (Center) Cat.-No AP17895PU-N (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Immunohistochemistry (Paraffin-embedded Sections)

Image 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.



Western Blotting

Image 3. A: Western blot analysis of ATP5B Antibody (Center) Cat.-No AP17895PU-N 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) Cat.-No AP17895PU-N. 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the ATP5B gene (Lane 2).