Datasheet for ABIN653186

anti-ATP5C1 antibody (N-Term)

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Overview

Quantity:	400 µL
Target:	ATP5C1
Binding Specificity:	AA 40-67, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATP5C1 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This ATP5C1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 40-67 amino acids from the N-terminal region of human ATP5C1.
Clone:	RB23852
Isotype:	Ig Fraction
Predicted Reactivity:	B, Pr, M, Rat
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	ATP5C1

Target Details

Alternative Name:	ATP5C1 (ATP5C1 Products)
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, 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.
Molecular Weight:	32996
Gene ID:	509
NCBI Accession:	NP_001001973, NP_005165
UniProt:	P36542
Pathways:	Proton Transport, Ribonucleoside Biosynthetic Process

Application Details

Application Notes:	WB: 1:1000. IHC-P: 1:50~100. FC: 1:10~50
Restrictions:	For Research Use only

Handling

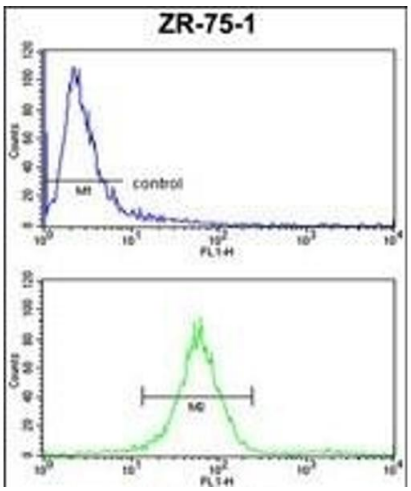
Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

Publications

Product cited in:

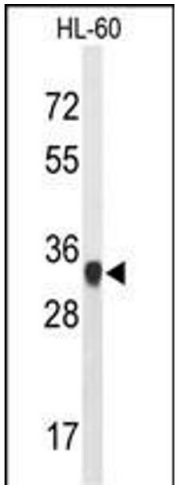
Gispert, Parganlija, Klinkenberg, Dröse, Wittig, Mittelbronn, Grzmil, Koob, Hamann, Walter, Büchel, Adler, Hrabé de Angelis, Busch, Zell, Reichert, Brandt, Osiewacz, Jendrach, Auburger: " Loss of mitochondrial peptidase Clpp leads to infertility, hearing loss plus growth retardation via accumulation of CLPX, mtDNA and inflammatory factors." in: **Human molecular genetics**, Vol. 22, Issue 24, pp. 4871-87, (2013) (PubMed).

Images



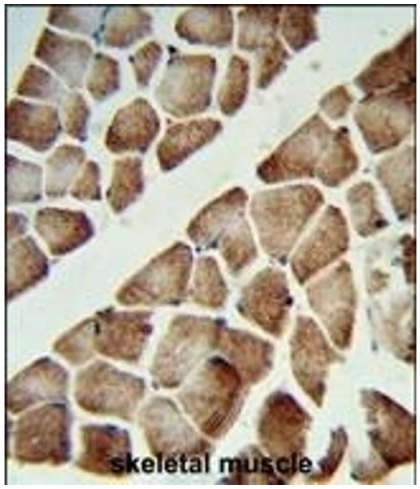
Flow Cytometry

Image 1. ATP5C1 Antibody (N-term) (ABIN653186 and ABIN2842739) 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.



Western Blotting

Image 2. Western blot analysis of ATP5C1 Antibody (N-term) (ABIN653186 and ABIN2842739) in HL-60 cell line lysates (35 µg/lane).ATP5C1 (arrow) was detected using the purified Pab.



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. 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.