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antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-ATP5B Antibody (Center)

Catalog Number: A32270-2

About ATP5F1B

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.

Overview

Product Name	Anti-ATP5B Antibody (Center)
Reactive Species	Human
Description	Boster Bio Anti-ATP5B Antibody (Center) (Catalog # A32270-2). Tested in IHC-P, IF, Flow Cytometry, WB application(s). This antibody reacts with Human.
Application	Flow Cytometry, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Storage Instructions	Maintain refrigerated at 2-8°C for up to 2 weeks. For long-term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P06576

Technical Details

Immunogen	This ATP5B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 135-163 amino acids from the Central region of human ATP5B.
Predicted Reactive Species	Bovine, Mouse, Rat
Isotype	Rabbit IgG
Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Suggested Dilutions	IF: 1:25 WB: 1:1000 IHC-P: 1:25 FC: 1:10-1:50

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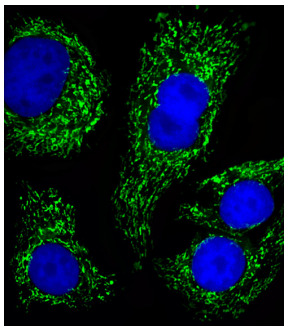
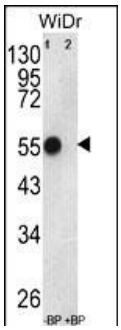
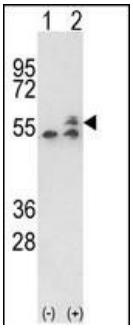
Anti-ATP5B Antibody (Center) (A32270-2) Images



Fluorescent image of SK-BR-3 cells stained with ATP5B Antibody (Center). A32270-2 was diluted at 1:25 dilution. An Alexa Fluor 488-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody (green). DAPI was used to stain the cell nuclear (blue).



Western blot analysis of ATP5B Antibody (Center) Pab pre-incubated without(lane 1) and with(lane 2) blocking peptide in WiDr cell line lysate. ATP5B (arrow) was detected using the purified Pab.



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.

Immunohistochemical analysis of paraffin-embedded H. liver section using ATP5B Antibody (Center). A32270-2 was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.

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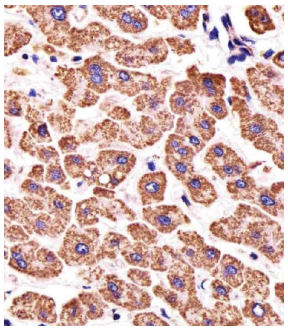
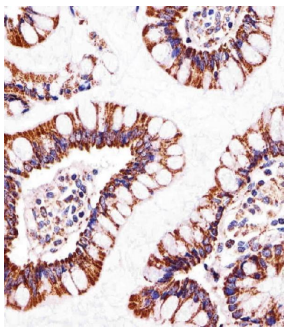
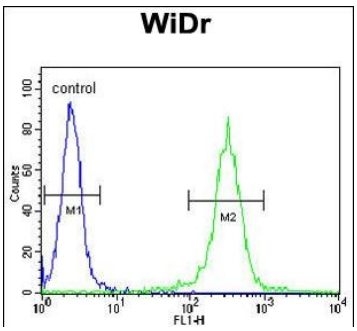




Immunohistochemical analysis of paraffin-embedded H. small intestine section using ATP5B Antibody (Center). A32270-2 was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.



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

Anti-ATP5B Antibody (Center)

For Research Use Only. Not for use in diagnostic procedures.