

Product Name: ATPB (19W10) Rabbit Monoclonal Antibody
Catalog #: AMRe07347

Summary

Production Name	ATPB (19W10) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% BSA.
Purification	Affinity purification

Immunogen

Gene Name	ATP5F1B
Alternative Names	ATP 5B; ATP synthase subunit beta mitochondrial; ATPB; ATPMB; ATPSB;
Gene ID	506.0
SwissProt ID	P06576.A synthetic peptide of human ATPB

Application

Dilution Ratio	WB: 1:2000-1:10000
Molecular Weight	57kDa

Background

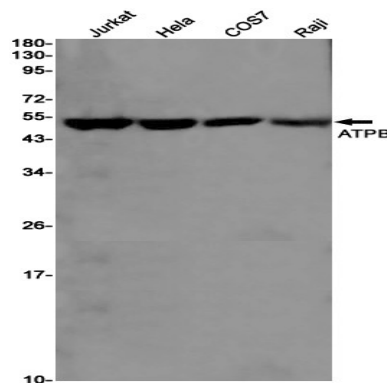
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Rotation of the central stalk against the surrounding alpha(3)beta(3) subunits leads to hydrolysis of ATP in three separate catalytic sites on the beta subunits. Mitochondrial membrane ATP synthase (F(1)F(0) ATP synthase or Complex V) produces ATP from ADP in the presence of a proton gradient across the membrane which is generated by electron transport complexes of the respiratory chain. F-type ATPases consist of two structural domains, F(1) - containing the extramembraneous catalytic core, and F(0) - containing the membrane proton channel, linked together by a central stalk and a peripheral stalk. During catalysis, ATP synthesis in the catalytic domain of F(1) is coupled via a rotary mechanism of the central stalk subunits to proton translocation. Subunits alpha and beta form the catalytic core in F(1). Rotation of the central stalk against the surrounding alpha(3)beta(3) subunits leads to hydrolysis of ATP in three separate catalytic sites on the beta subunits.

Research Area

Image Data



Western blot detection of ATPB in Jurkat, HeLa, COS7, Raji cell lysates using ATPB antibody (1:1000 diluted).

Note

For research use only.