

Product datasheet for **TA383785M**

ATP5F1B Rabbit Monoclonal Antibody [Clone ID: R01-4G1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	R01-4G1
Applications:	IF, IHC, IP, WB
Recommended Dilution:	WB: 1/2000-1/10000 IHC: 1/20-1/100 ICC/IF: 1/50 IP: 1/20-1/50
Reactivity:	Human, Mouse, Rat, Monkey
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	A synthetic peptide of human ATPB
Formulation:	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Stability:	1 year
Predicted Protein Size:	Calculated MW: 57 kDa; Observed MW: 52 kDa
Gene Name:	ATP synthase, H ⁺ transporting, mitochondrial F1 complex, beta polypeptide
Database Link:	Entrez Gene 506 Human P06576

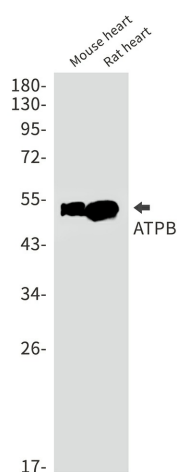
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Background:

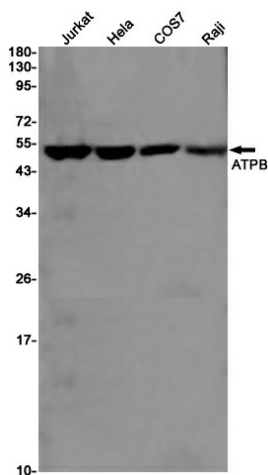
Swiss-Prot Acc.P06576.Mitochondrial membrane ATP synthase (F1F0 ATP synthase or Complex V) produces ATP from ADP in the presence of a proton gradient across the membrane which is generated by electron transport complexes of the respiratory chain. F-type ATPases consist of two structural domains, F1 - containing the extramembraneous catalytic core, and F0 - containing the membrane proton channel, linked together by a central stalk and a peripheral stalk. During catalysis, ATP synthesis in the catalytic domain of F1 is coupled via a rotary mechanism of the central stalk subunits to proton translocation. Subunits alpha and beta form the catalytic core in F1. Rotation of the central stalk against the surrounding alpha3beta3 subunits leads to hydrolysis of ATP in three separate catalytic sites on the beta subunits.

Synonyms:

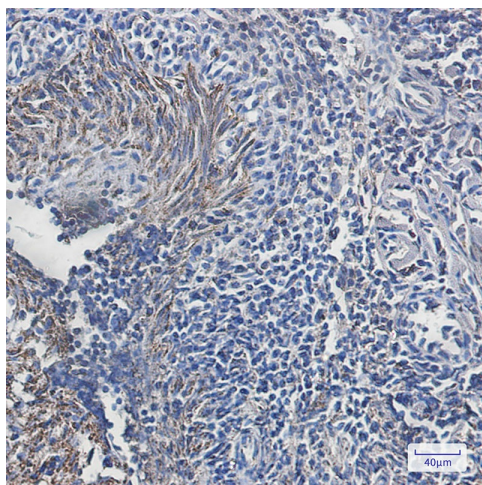
ATPMB; ATPSB; MGC5231

Product images:


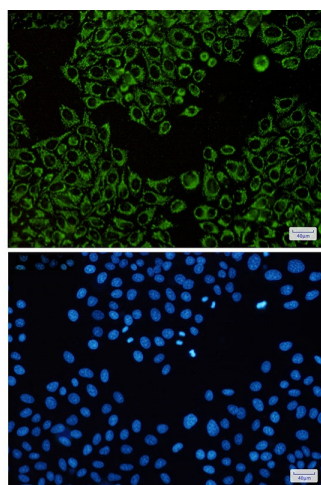
Western blot analysis of ATPB in mouse heart, rat heart lysates using ATPB antibody.



Western blot analysis of ATPB in Jurkat, HeLa, COS7, Raji lysates using ATPB antibody.



Immunohistochemistry analysis of paraffin-embedded Human tonsil using ATPB antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



Immunocytochemistry analysis of ATPB (green) in Hela using ATPB antibody, and DAPI (blue).