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ATPB Recombinant Rabbit mAb

Catalog Number:	bsm-52904R
Target Protein:	АТРВ
Concentration:	1mg/ml
Form:	Liquid
Host:	Rabbit
Clonality:	Recombinant
Clone No.:	16C6
lsotype:	lgG
Applications:	WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), ICC/IF (1:50-200), IP (1:10-50)
Reactivity:	Human, Mouse, Rat
Predicted MW:	56 kDa
Subcellular	Cell membrane ,Cytoplasm
Locations:	
Entrez Gene:	506
Swiss Prot:	P06576
Source:	KLH conjugated synthetic peptide derived from human ATP5B: 141-184 / 529aa.
Purification:	affinity purified by Protein G
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Background:	Mitochondrial ATP synthase is composed of two multi-subunit complexes that utilize an
	inner membrane electrochemical gradient to catalyze the synthesis of ATP during oxidative $% \mathcal{A}^{(1)}$
	phosphorylation. The two multi-subunit complexes are designated F1 and F0, the former of
	which comprises the soluble catalytic core and the latter of which comprises the
	membrane-spanning proton channel of ATP synthase. F1 consists of five distinct subunits,
	designated ATP5A, ATP5B, ATP5C1, ATP5D and ATP5E, while F0 consists of ten subunits,
	designated ATP5H, ATP5G1, ATP5I, ATP5G2, ATP5J2, ATP5J, ATP5G3, ATP5S, ATP5F1 and
	ATP5L. ATP5B, also designated ATPMB, ATPSB or mitochondrial ATP synthetase, beta
	subunit, is a 529 amino acid protein that localizes to the mitochondrial membrane and
	exists as a subunit of the F0 complex. ATP5B is encoded by a nuclear gene and assembled
	with the other subunits encoded by both mitochondrial and nuclear genes. The ATP5B gene
	is activated by members of the Ets family of transcription factors, suggesting that Ets
	transcription factors are involved in the enhanced expression of the ATP5B gene in highly

proliferating cells and in the coordinate transcription of nuclear genes for mitochondrial proteins. ATP5B mRNA levels vary among species through transcriptional control with high expression levels in heart, lower levels in skeletal muscle and the lowest levels in liver and kidney.

VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded Human Kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with ATPB Monoclonal Antibody, Unconjugated(bsm-52904R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



25 ug total protein per lane of various lysates (see on figure) probed with ATPB monoclonal antibody, unconjugated (bsm-52904R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded Human Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with ATPB Monoclonal Antibody, Unconjugated(bsm-52904R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Heart; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with ATPB Monoclonal Antibody, Unconjugated(bsm-52904R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Uterus; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with ATPB Monoclonal Antibody, Unconjugated(bsm-52904R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Mouse Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with ATPB Monoclonal Antibody, Unconjugated(bsm-52904R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.