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Anti-ATPB Rabbit mAb [15H23]

Catalog No.: A52014

Basic Information

Catalog No. (Cat.No.)	A52014
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IP,IF,ELISA
Synonyms	ATPB,ATP5B,ATP5F1B,ATP5FB,ATP synthase subunit beta

Product Information

Target	ATPB
Molecular Weight(Calculated)	57 kDa
Molecular Weight(Observed)	52 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	15H23
RRID	NA
Storage buffer	50% Glycerol, 0.05% BSA and 0.05% preservative in PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

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Product Usage Information

Application	Dilution
WB	1:1000-1:5000
IHC	1:200-1:1000
IP	1:50-1:200
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	ATP synthase F1 subunit beta, mitochondrial
Gene Name	*ATP5B*
Domain	NA
Background	ATPB is the β subunit of the F1 domain of mitochondrial ATP synthase, encoded by the ATP5B gene with a molecular weight of approximately 52 kDa, and functions as a core catalytic subunit of the mitochondrial oxidative phosphorylation system. Assembled with ATP5A to form the catalytic core of ATP synthase, ATPB is widely distributed on the inner mitochondrial membrane of high-energy-consuming cells. It acts as a key rate-limiting component for cellular ATP synthesis, sustains mitochondrial morphological stability and metabolic homeostasis. Defective function or abnormal expression of ATPB severely impairs mitochondrial energy production, induces oxidative stress damage, cell cycle arrest and apoptosis, and participates in the pathological progression of tumors, metabolic disorders, myocardial ischemic injury and neuropathy.