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Anti-ATP5A Rabbit mAb [06C56]

Catalog No.: A52013

Basic Information

Catalog No. (Cat.No.)	A52013
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,ELISA
Synonyms	ATP5A,ATP5F1A,ATP5FA,ATP synthase subunit alpha,OPA subunit 6

Product Information

Target	ATP5A
Molecular Weight(Calculated)	60 kDa
Molecular Weight(Observed)	55 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	06C56
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	1:2000-1:10000
IHC	1:200-1:1000
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	ATP synthase F1 subunit alpha, mitochondrial
Gene Name	*ATP5A1*
Domain	NA
Background	ATP5A is the α subunit of the F1 domain of mitochondrial ATP synthase, encoded by the ATP5A1 gene with a molecular weight of approximately 55 kDa, and acts as a pivotal functional protein for mitochondrial energy metabolism. Stably expressed on the inner mitochondrial membrane, ATP5A serves as a core catalytic component of ATP synthase. It primarily participates in mitochondrial oxidative phosphorylation, catalyzes ADP phosphorylation to generate ATP, provides major energy support for cellular life activities, and maintains mitochondrial structural integrity and energy homeostasis. Downregulated expression or dysfunction of ATP5A directly causes impaired mitochondrial energy synthesis, accumulated oxidative stress and cellular metabolic failure, which is closely related to cell apoptosis, senescence, tumor metabolic reprogramming, myocardial injury and neurodegenerative diseases.