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Anti-ATF6A Rabbit mAb [59H37]

Catalog No.: A52012

Basic Information

Catalog No. (Cat.No.)	A52012
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IP,IF,ELISA
Synonyms	ATF6A,ATF6α,cAMP-dependent transcription factor ATF-6 alpha

Product Information

Target	ATF6A
Molecular Weight(Calculated)	75 kDa
Molecular Weight(Observed)	100 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	59H37
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
IP	1:50-1:200
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	Activating transcription factor 6 alpha
Gene Name	*ATF6A*
Domain	NA
Background	ATF6A (Activating Transcription Factor 6A) is a key member of the basic leucine zipper (bZIP) transcription factor family encoded by the ATF6A gene, functioning as a central regulator of the endoplasmic reticulum stress (ERS) pathway. Localized on the endoplasmic reticulum membrane, ATF6A maintains low basal expression under physiological conditions. Upon ER stress and protein folding dysfunction, ATF6A is cleaved and activated, translocates to the nucleus, and initiates the transcription of downstream ER stress repair genes to regulate protein folding, ER homeostasis restoration and cell survival. Sustained abnormal activation of ATF6A triggers chronic ER stress, induces cell apoptosis, metabolic disorders and inflammatory damage, and contributes to tumor proliferation, diabetic complications, cardiovascular injury and neurological diseases.