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Anti-ATF-4 Rabbit mAb [11H59]

Catalog No.: A52088

Basic Information

Catalog No. (Cat.No.)	A52088
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IP,IF,ELISA
Synonyms	ATF-4,C/EBP-homologous transcription factor,bZIP family protein,CREB2

Product Information

Target	ATF-4
Molecular Weight(Calculated)	38 kDa
Molecular Weight(Observed)	49 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	11H59
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	1:100-1:200
IP	1:50-1:200
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	Activating transcription factor-4
Gene Name	*ATF4*
Domain	NA
Background	ATF-4 (Activating transcription factor 4) belongs to bZIP transcription-factor family and governs transcriptional responses to ER stress and amino-acid deprivation. Under homeostatic conditions, ATF-4 protein is kept at low abundance. Upon ER stress, amino-acid shortage or oxidative insult, eIF2α phosphorylation selectively enhances ATF-4 translation. Nuclear-translocated ATF-4 binds CRE/ATF cis-elements and modulates target-gene networks for amino-acid transport, oxidative-stress defence and ER-homeostasis maintenance. Sustained ATF-4 activation triggers CHOP-dependent apoptosis. ATF-4 contributes to tumor metabolism, drug resistance and metabolic disorders. It acts as a stress-pathway hub for ER-stress, nutrient-sensing and tumor-biology investigations.