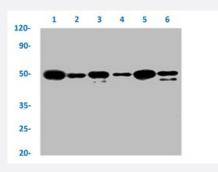


RecomAb™

ATF4 recombinant monoclonal antibody, clone 9E1

Catalog # RAB04349 Size 100 uL

Applications



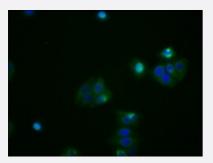
Western Blot

Western blot analysis of Lane 1: Hela whole cell lysate, Lane 2: MCF-7 whole cell lysate, Lane 3: 293 whole cell lysate, Lane 4: HepG2 whole cell lysate, Lane 5: Jurkat whole cell lysate and Lane 6: K562 whole cell lysate with ATF4 recombinant monoclonal antibody, clone 9E1 (Cat # RAB04349).



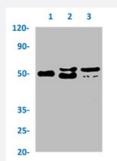
Immunohistochemistry

Immunohistochemical staining of human breast cancer with ATF4 recombinant monoclonal antibody, clone 9E1 (Cat # RAB04349) (diluated at 1:160).



Immunofluorescence

Immunofluorescent staining of HepG2 cells with ATF4 recombinant monoclonal antibody, clone 9E1 (Cat # RAB04349) (diluated at 1:32.5). The secondary antibody was Alexa Fluor 488-congugated goat anti-rabbit IgG (green). Counter-stain DAPI was used (blue).

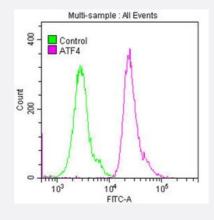


Immunoprecipitation

Immunoprecipitation analysis of HeLa cell lysate with ATF4 recombinant monoclonal antibody, clone 9E1 (Cat # RAB04349). Lane 1: rabbit control IgG, Lane 2: RAB04349 precipitates and Lane 3: Input (Hela whole cell lysate).

🗑 Abnova

Product Information



Flow Cytometry

Flow cytometric analysis of HeLa cells with ATF4 recombinant monoclonal antibody, clone 9E1 (Cat # RAB04349) (diluated at 1:50; purple line) and negative control (green line).

Specification	
Product Description	Rabbit recombinant monoclonal antibody raised against human ATF4.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human ATF4.
Theoretical MW (kDa)	Calculated MW: 39 kD
Reactivity	Human
Form	Liquid
Purification	Affinity chromatography
Isotype	lgG
Recommend Usage	ELISA Flow Cytometry Immunofluorescence (1:20-1:200) Immunohistochemistry (1:50-1:200) Immunoprecipitation (1:200-1:1000) Western Blot (1:500-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150mM NaCl, 50% glycerol and 0.02% sodium azide)
Storage Instruction	Store at -20 °C or -80 °C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.



Applications

Western Blot

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Immunoprecipitation analysis of HeLa cell lysate with ATF4 recombinant monoclonal antibody, clone 9E1 (Cat # RAB04349). Lane 1: rabbit control IgG, Lane 2: RAB04349 precipitates and Lane 3: Input (Hela whole cell lysate).

- Enzyme-linked Immunoabsorbent Assay
- Flow Cytometry

Flow cytometric analysis of HeLa cells with ATF4 recombinant monoclonal antibody, clone 9E1 (Cat # RAB04349) (diluated at 1:50; purple line) and negative control (green line).

Gene Info — ATF4	
Entrez GenelD	<u>468</u>
Protein Accession#	<u>P18848</u>
Gene Name	ATF4
Gene Alias	CREB-2, CREB2, TAXREB67, TXREB
Gene Description	activating transcription factor 4 (tax-responsive enhancer element B67)
Omim ID	<u>604064</u>
Gene Ontology	Hyperlink



Product Information

Gene SummaryThis gene encodes a transcription factor that was originally identified as a widely expressed mam
malian DNA binding protein that could bind a tax-responsive enhancer element in the LTR of HTL
V-1. The encoded protein was also isolated and characterized as the cAMP-response element binding
proteins that includes the AP-1 family of transcription factors, cAMP-response element binding proteins (CREBs) and CREB-like proteins. These transcription factors share a leucine zipper regio
n that is involved in protein-protein interactions, located C-terminal to a stretch of basic amino aci
ds that functions as a DNA binding domain. Two alternative transcripts encoding the same protein
have been described. Two pseudogenes are located on the X chromsome at q28 in a region cont
aining a large inverted duplication. [provided by RefSeqOther Designationsactivating transcription factor 4|cAMP response element-binding protein 2

Pathway

- GnRH signaling pathway
- Long-term potentiation
- MAPK signaling pathway
- <u>Neurotrophin signaling pathway</u>
- Prostate cancer

Disease

- Bipolar Disorder
- Genetic Predisposition to Disease
- Mental Disorders
- <u>Neuropsychological Tests</u>
- Schizophrenia