Anti-Phospho-ATF2 (Thr71) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R011648

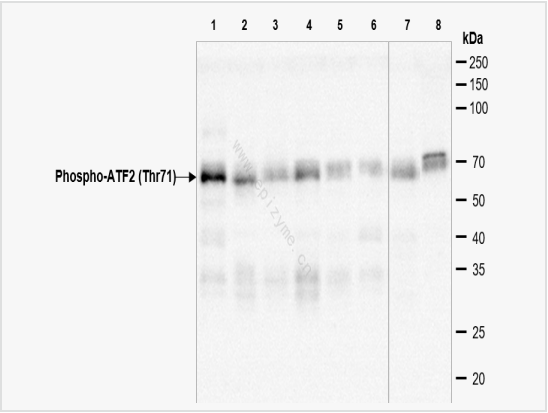
Product Information

Application	WB, ELISA, IF (Cell)/ICC, IHC-P/IF (Tissue-P)
Reactivity	Rat, Human, Mouse
Dilution	WB 1:1,000~1:2,000; IHC-P 1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	72K17M64
Isotype	IgG
Label	Unconjugated
Immunogen	A synthetic phosphopeptide corresponding to residues surrounding Thr71 of human ATF2
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Phospho-ATF2 (Thr71) Rabbit mAb [72K17M64] is for research use only and not for use in diagnostic or therapeutic procedures.

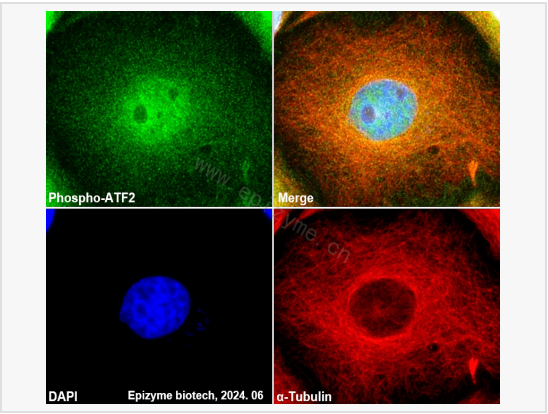
Protein Information

Synonyms	ATF2, CREB2, CREBP1, Cyclic AMP-dependent transcription factor ATF-2, cAMP-dependent transcription factor ATF-2, Activating transcription factor 2, Cyclic AMP-responsive element-binding protein 2, CREB-2, cAMP-responsive element-binding pro.
Calculated MW	Calculated MW: 47 kDa; Observed MW: 70 kDa
Uniprot ID	P15336
Gene ID	1386
Background	This gene encodes a transcription factor that is a member of the leucine zipper family of DNA binding proteins. This protein binds to the cAMP-responsive element (CRE), an octameric palindrome. The protein forms a homodimer or heterodimer with c-Jun and stimulates CRE-dependent transcription. The protein is also a histone acetyltransferase (HAT) that specifically acetylates histones H2B and H4 in vitro;

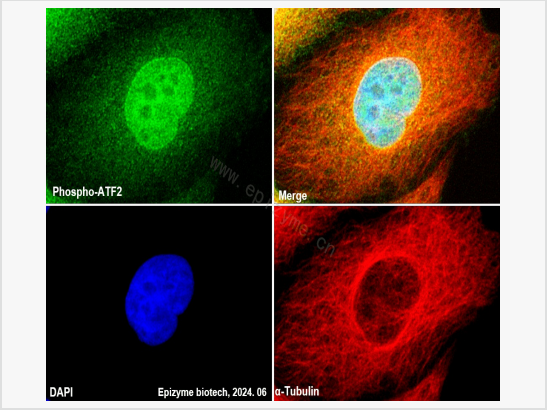
Validation Images



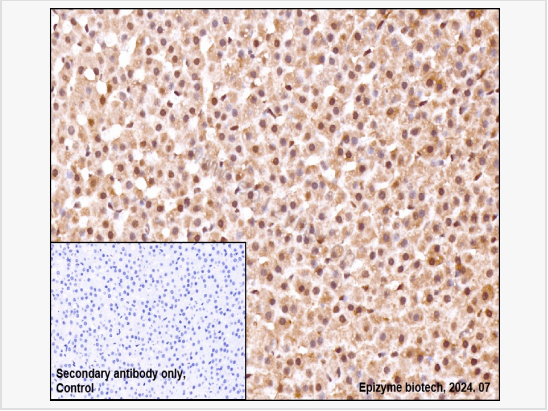
Western Blot - Anti-Phospho-ATF2 (Thr71) Rabbit mAb [72K17M64]
All lanes: R011648 at 1:1,000 dilution
Lane 1: A549 (human non-small cell lung cancer epithelial cell) whole cell lysates
Lane 2: Jurkat (human T lymphocytic leukemia cell) whole cell lysates
Lane 3: HCT116 (human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: RAW264.7 (mouse mononuclear macrophage leukemia epithelial cell)
Lane 5: HepG2 (human hepatocellular carcinoma epithelial cell) whole cell lysates
Lane 6: SCC-9 (human tongue squamous carcinoma epithelial cell) whole cell lysates
Lane 7: Rat kidney whole tissue lysates
Lane 8: Balb/c mouse liver whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 54 kDa
Observed band size: 70 kDa
Developed using the ECL technique (Cat. No. SQ201).



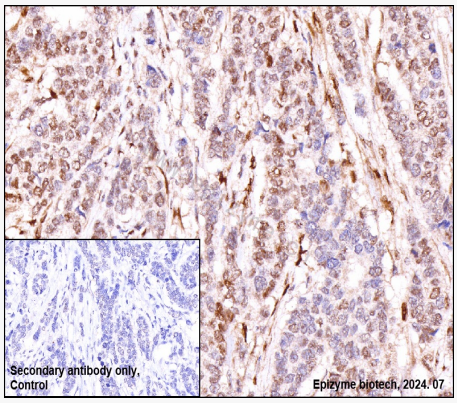
Immunofluorescence - Anti-Phospho-ATF2 (Thr71) Rabbit mAb [72K17M64]
Sample: HeLa cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R011648 at 1:50 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:50 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).



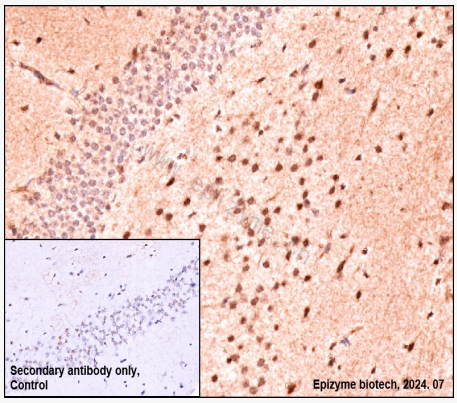
Immunofluorescence - Anti-Phospho-ATF2 (Thr71) Rabbit mAb [72K17M64]
Sample: HeLa cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R011648 at 1:50 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:50 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).



Immunohistochemistry - Anti-Phospho-ATF2 (Thr71) Rabbit mAb [72K17M64]
Sample: Paraformaldehyde-fixed, paraffin embedded rat adrenal gland tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R011648 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Phospho-ATF2 (Thr71) Rabbit mAb [72K17M64]
Sample: Paraformaldehyde-fixed, paraffin embedded human breast carcinoma tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R011648 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Phospho-ATF2 (Thr71) Rabbit mAb [72K17M64]
Sample: Paraformaldehyde-fixed, paraffin embedded mouse brain tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R011648 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.