Anti-Phospho-ATF2 (Thr71) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R014298

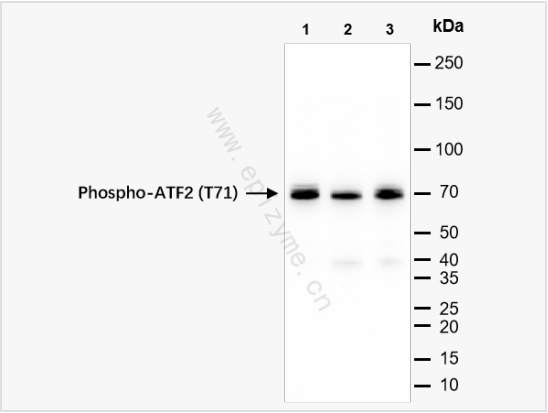
Product Information

Application	ELISA, IHC-P/IF (Tissue-P), IF (Cell)/ICC, WB
Reactivity	Human, Mouse
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	41G81H46
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Phospho-ATF2 (T71)
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 [41G81H46] is for research use only and not for use in diagnostic or therapeutic procedures.

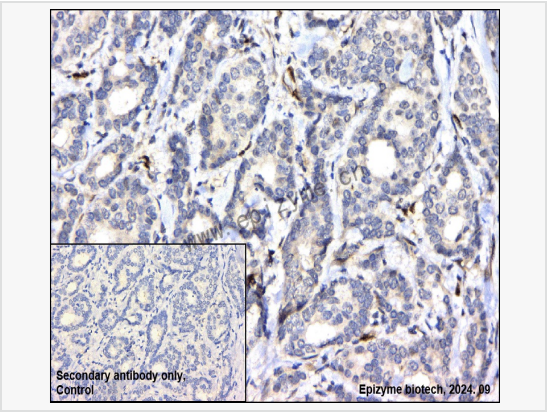
Protein Information

Synonyms	Activating transcription factor 2, Activating transcription factor 2 splice variant ATF2 var2, ATF 2, Atf-2, Atf2, ATF2 protein, ATF2_HUMAN, cAMP Response Element Binding Protein 2, cAMP response element binding protein CRE BP1, cAMP response element-binding protein CRE-BP1, cAMP responsive element binding protein 2, formerly, cAMP-dependent transcription factor ATF-2, cAMP-responsive element-binding protein 2, CRE BP1, CRE-BP, CREB 2, CREB-2, CREB2, CREBP1, Cyclic AMP dependent transcription factor ATF 2, Cyclic AMP-dependent transcription factor ATF-2, Cyclic AMP-responsive element-binding protein 2, D130078H02Rik, D18875, HB 16, HB16, Histone acetyltransferase ATF2, MGC105211, MGC105222, MGC111558, MGC142504, mXBP, MXBP protein, Tg(Gzma-Klra1)7Wum, TREB 7, TREB7.
Calculated MW	Calculated MW: 55 kDa; Observed MW: 70 kDa
Uniprot ID	P15336
Gene ID	1386
Background	The transcription factor ATF-2 (also called CRE-BP1) binds to both AP-1 and CRE DNA response elements and is a member of the ATF/CREB family of leucine zipper proteins. ATF-2 interacts with a variety of viral oncoproteins and cellular tumor suppressors and is a target of the SAPK/JNK and p38 MAP kinase signaling pathways. Various forms of cellular stress, including genotoxic agents, inflammatory cytokines, and UV irradiation, stimulate the transcriptional activity of ATF-2. Cellular stress activates ATF-2 by phosphorylation of Thr69 and Thr71.
Cellular Location	Nucleus.

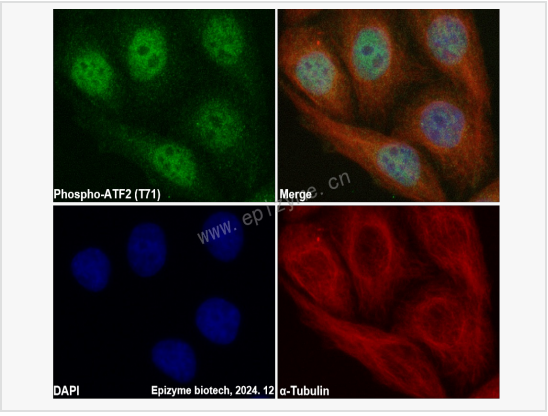
Validation Images



Western Blot - Anti-Phospho-ATF2 (Thr71) Rabbit mAb [41G81H46]
All lanes: R014298 at 1:1,000 dilution
Lane 1: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 2: A431 (Human epidermoid teratoma cell line) whole cell lysates
Lane 3: T24 (Human bladder cancer epithelial cell) whole cell 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: 55 kDa
Observed band size: 70 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-Phospho-ATF2 (Thr71) Rabbit mAb [41G81H46]
Sample: Paraformaldehyde-fixed, paraffin embedded human breast cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R014298 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.



Immunofluorescence - Anti-Phospho-ATF2 (Thr71) Rabbit mAb [41G81H46]
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: R014298 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 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).