

Anti-ATF2 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

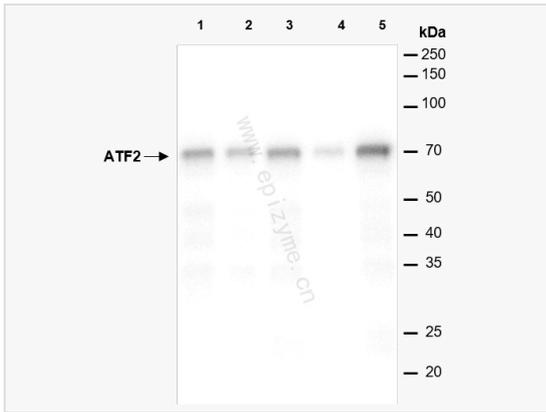
Catalog # R013850

Product Information

Application	IHC-P/IF (Tissue-P), WB, IF (Cell)/ICC, ELISA
Reactivity	Human, Rat, 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.	28H92M72
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from 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-ATF2 Rabbit mAb [28H92M72] 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: 70 kDa; Observed MW: 70 kDa
Uniprot ID	P15336, A1L3Z2, A4D7U4, A4D7U5, A4D7V1, D3DPE9
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;
Cellular Location	Nucleus.
Tissue Location	Abundant expression seen in the brain.



Western Blot - Anti-ATF2 Rabbit mAb [28H92M72]

All lanes: R013850 at 1:1,000 dilution

Lane 1: SCC-9 (Human tongue squamous carcinoma epithelial cell) whole cell lysates

Lane 2: U2OS (Human osteosarcoma epithelial cell) whole cell lysates

Lane 3: SW620 (Human colorectal carcinoma epithelial cell) whole cell lysates

Lane 4: 293T (Human embryonic kidney cell) whole cell lysates

Lane 5: HepG2 (Human hepatocellular carcinoma epithelial cell) whole cell lysates

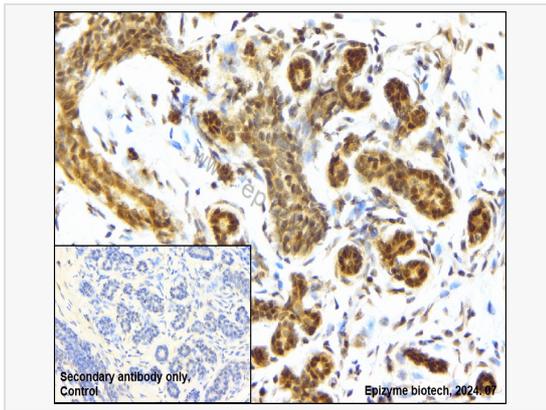
Lysates/proteins at 10 µg per lane.

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-ATF2 Rabbit mAb [28H92M72]

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: R013850 at 1:200 dilution

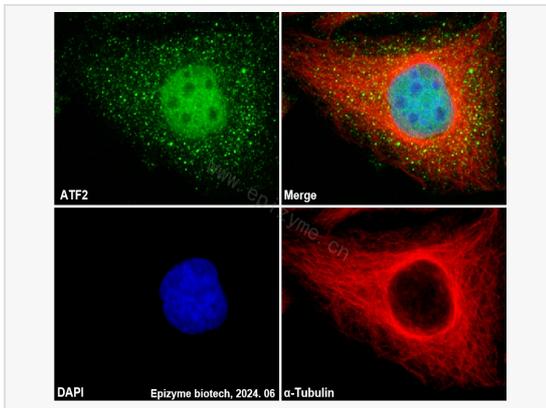
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

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-ATF2 Rabbit mAb [28H92M72]

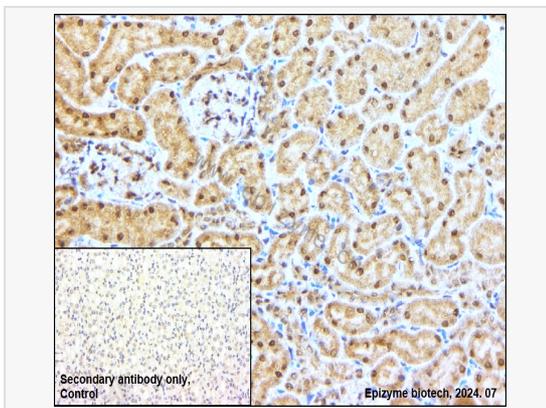
Sample: HeLa cells

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: R013850 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).



Immunohistochemistry - Anti-ATF2 Rabbit mAb [28H92M72]

Sample: Paraformaldehyde-fixed, paraffin embedded rat kidney tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R013850 at 1:200 dilution

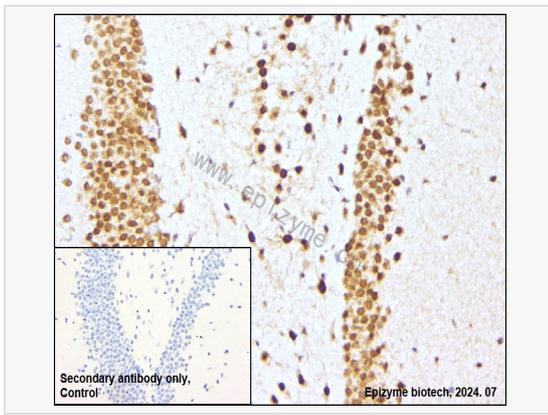
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

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-ATF2 Rabbit mAb [28H92M72]

Sample: Paraformaldehyde-fixed, paraffin embedded mouse brain tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R013850 at 1:200 dilution

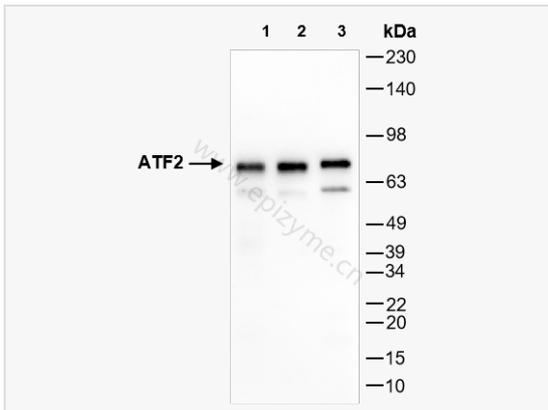
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

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.



Western Blot - Anti-ATF2 Rabbit mAb [28H92M72]

All lanes: R013850 at 1:1,000 dilution

Lane 1: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates

Lane 2: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates

Lane 3: PC-12 (Rat adrenal pheochromocytoma 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: 70 kDa

Observed band size: 70 kDa

Developed using the ECL technique (Cat. No. SQ201).