Anti-ATF1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R014207

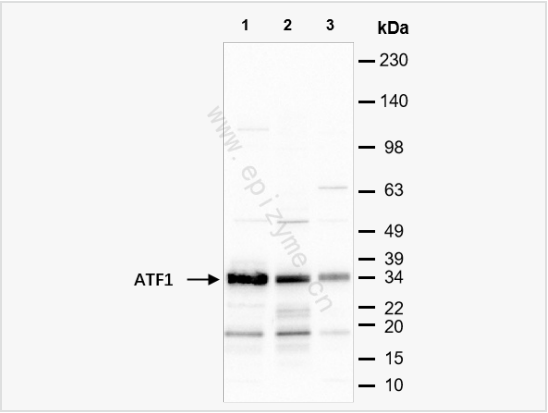
Product Information

Application	ELISA, WB, IF (Cell)/ICC
Reactivity	Human
Dilution	WB 1:1,000~1:2,000; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	91D78Q99
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human ATF1
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-ATF1 Rabbit mAb [91D78Q99] is for research use only and not for use in diagnostic or therapeutic procedures.

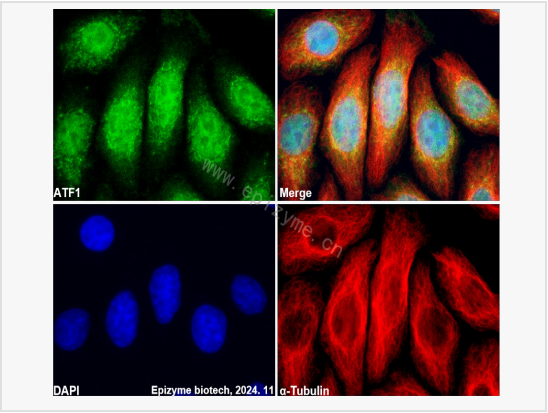
Protein Information

Synonyms	Activating transcription factor 1, ATF 1, atf1, ATF1 EWS fusion gene, ATF1 FUS fusion gene, ATF1_HUMAN, cAMP dependent transcription factor 1, cAMP-dependent transcription factor ATF-1, Cyclic AMP dependent transcription factor ATF 1, Cyclic AMP dependent transcription factor ATF1, Cyclic AMP-dependent transcription factor ATF-1, EWS AFT1, FUS ATF 1, FUS/ATF 1, Protein TREB36, RNA binding protein activating transcription factor 1 fusion protein, TREB 36, TREB36, TREB36 protein.
Calculated MW	Calculated MW: 29 kDa; Observed MW: 29-35 kDa
Uniprot ID	P18846
Gene ID	466
Background	This gene encodes an activating transcription factor, which belongs to the ATF subfamily and bZIP (basic-region leucine zipper) family. It influences cellular physiologic processes by regulating the expression of downstream target genes, which are related to growth, survival, and other cellular activities. This protein is phosphorylated at serine 63 in its kinase-inducible domain by serine/threonine kinases, cAMP-dependent protein kinase A, calmodulin-dependent protein kinase I/II, mitogen- and stress-activated protein kinase and cyclin-dependent kinase 3 (cdk-3). Its phosphorylation enhances its transactivation and transcriptional activities, and enhances cell transformation. Fusion of this gene and FUS on chromosome 16 or EWSR1 on chromosome 22 induced by translocation generates chimeric proteins in angiomatoid fibrous histiocytoma and clear cell sarcoma. This gene has a pseudogene on chromosome 6. [provided by RefSeq, Aug 2010]
Cellular Location	Nucleus.

Validation Images



Western Blot - Anti-ATF1 Rabbit mAb [91D78Q99]
All lanes: R014207 at 1:2,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma 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: 29 kDa
Observed band size: 29-35 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-ATF1 Rabbit mAb [91D78Q99]
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: R014207 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).