



# ATF-1 (phospho Ser63) Polyclonal Antibody

<b>Catalog No</b>	BYab-01289
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse
<b>Applications</b>	WB;ELISA
<b>Gene Name</b>	ATF1
<b>Protein Name</b>	Cyclic AMP-dependent transcription factor ATF-1
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human ATF1 around the phosphorylation site of Ser63. AA range:31-80
<b>Specificity</b>	Phospho-ATF-1 (S63) Polyclonal Antibody detects endogenous levels of ATF-1 protein only when phosphorylated at S63.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	Western Blot: 1/500 - 1/2000. ELISA: 1/5000. Not yet tested in other applications.
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	ATF1; Cyclic AMP-dependent transcription factor ATF-1; cAMP-dependent transcription factor ATF-1; Activating transcription factor 1; Protein TREB36
<b>Observed Band</b>	29kD
<b>Cell Pathway</b>	Nucleus .
<b>Tissue Specificity</b>	Bone marrow,
<b>Function</b>	disease:A chromosomal aberration involving ATF1 is associated with angiomatoid fibrous histiocytoma (AFH) [MIM:612160]. Translocation t(12;16)(q13;p11.2) with FUS generates a chimeric ATF1/FUS protein.,disease:A chromosomal aberration involving ATF1 is associated with angiomatoid fibrous histiocytoma (AFH) [MIM:612160]. Translocation t(12;22)(q13;q12) with EWSR1 generates a chimeric ATF1/EWSR1 protein.,function:This protein binds the cAMP response element (CRE) (consensus: 5'-GTGACGT[AC][AG]-3'), a sequence present in many viral and cellular promoters. Binds to the Tax-responsive element (TRE) of HTLV-I. Mediates PKA-induced stimulation of CRE-reporter genes.,similarity:Belongs to the bZIP family. ATF subfamily.,similarity:Contains 1 bZIP

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domain.,similarity:Contains 1 KID (kinase-inducible) domain.,subunit:Binds DNA as a dimer.,

**Background**

activating transcription factor 1(ATF1) Homo sapiens 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 chro

**matters needing attention**

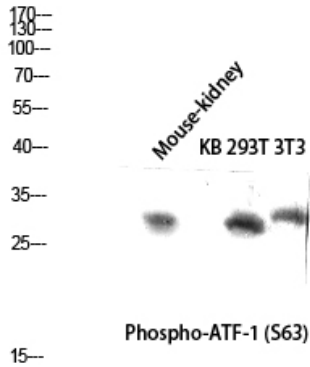
Avoid repeated freezing and thawing!

**Usage suggestions**

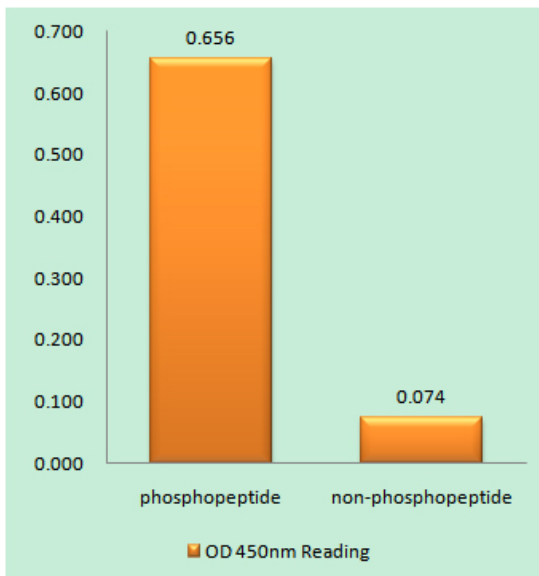
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



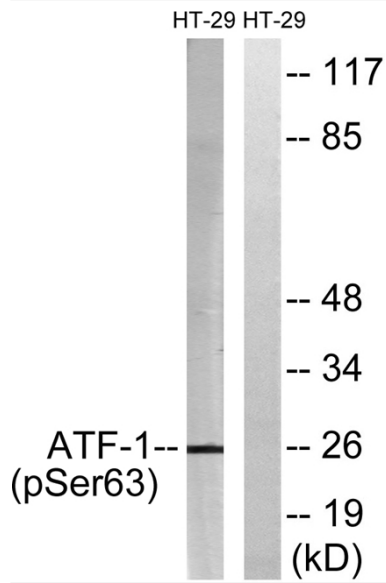
## Products Images



Western blot analysis of Mouse-kidney KB 293T 3T3 lysis using Phospho-ATF-1 (S63) antibody. Antibody was diluted at 1:500 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Invent biotech, MN, USA).



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using ATF1 (Phospho-Ser63) Antibody



Western blot analysis of lysates from HT29 cells treated with Insulin 0.01U/ML 15', using ATF1 (Phospho-Ser63) Antibody. The lane on the right is blocked with the phospho peptide.