

## ATF-1 (phospho Ser63) Polyclonal Antibody

Catalog No: YP0294

**Reactivity:** Human; Mouse

**Applications:** WB;ELISA

Target: ATF-1

**Fields:** >>Aldosterone synthesis and secretion;>>Transcriptional misregulation in

cancer

P18846

P81269

Gene Name: ATF1

**Protein Name:** Cyclic AMP-dependent transcription factor ATF-1

Human Gene Id: 466

**Human Swiss Prot** 

No:

Mouse Gene Id: 11908

**Mouse Swiss Prot** 

No:

Immunogen: The antiserum was produced against synthesized peptide derived from human

ATF1 around the phosphorylation site of Ser63. AA range:31-80

Specificity: Phospho-ATF-1 (S63) Polyclonal Antibody detects endogenous levels of ATF-1

protein only when phosphorylated at S63.

**Formulation :** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

**Dilution:** WB 1:500 - 1:2000. ELISA: 1:5000. Not yet tested in other applications.

**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

**Storage Stability:** -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 29kD

**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, mitogenand 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

**Function:** 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 domain.,similarity:Contains 1 KID (kinase-inducible) domain.,subunit:Binds

DNA as a dimer.,

Subcellular Location:

Nucleus.

**Expression :** Bone marrow,

Tag: orthogonal

**Sort :** 2351

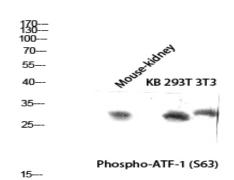
**No4**: 1

Host: Rabbit

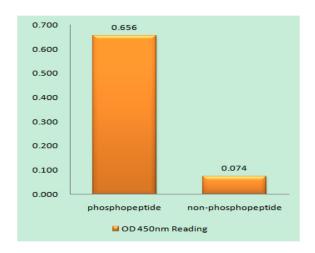
Modifications: Phospho



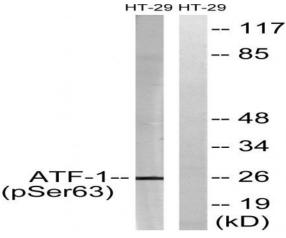
## **Products Images**



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,Inventbiotech,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.