

ATF-1 Polyclonal Antibody

Catalog No :	YT0378
Reactivity :	Human;Mouse
Applications :	WB;IHC;IF;ELISA
Target :	ATF-1
Fields :	>>Aldosterone synthesis and secretion;>>Transcriptional misregulation in cancer
Gene Name :	ATF1
Protein Name :	Cyclic AMP-dependent transcription factor ATF-1
Human Gene Id :	466
Human Swiss Prot No :	P18846
Mouse Gene Id :	11908
Mouse Swiss Prot No :	P81269
Immunogen :	The antiserum was produced against synthesized peptide derived from human ATF1. AA range:31-80
Specificity :	ATF-1 Polyclonal Antibody detects endogenous levels of ATF-1 protein.
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. IHC 1:100 - 1:300. ELISA: 1:5000.. IF 1:50-200
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

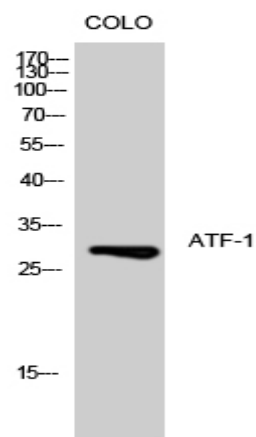
Background : activating transcription factor 1(ATF1) Homo sapiens This gene encodes an activating transcription factor, which belongs to the ATF subfamily and bZIP (basic-region leucine zipper) family. It influences cellular physiologic processes by regulating the expression of downstream target genes, 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, 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

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.,

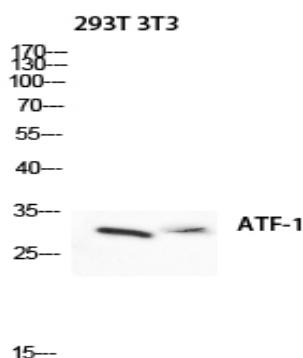
Subcellular Location : Nucleus .

Expression : Bone marrow,

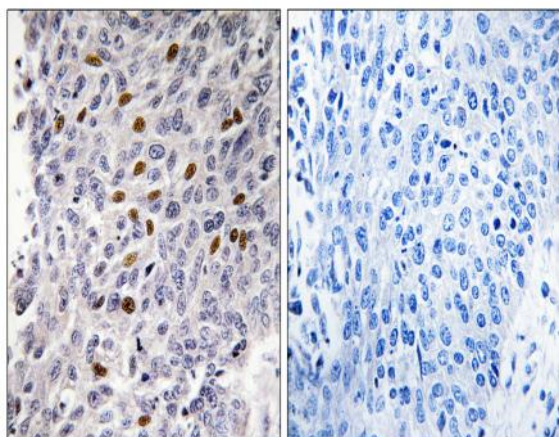
Products Images



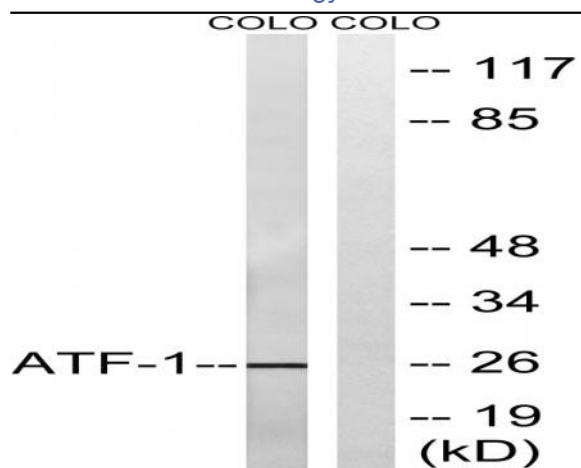
Western Blot analysis of COLO cells using ATF-1 Polyclonal Antibody diluted at 1:500 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA).



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



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using ATF1 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from COLO cells, using ATF1 Antibody. The lane on the right is blocked with the synthesized peptide.