



## ATF-1 (phospho Ser63) Monoclonal Antibody

Formulation       Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.         Source       Monoclonal, Mouse, IgG         Purification       The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.         Dilution       WB 1:500-2000         Concentration       1 mg/ml         Purity       ≥90%         Storage Stability       -20°C/1 year         Synonyms       ATF1; Cyclic AMP-dependent transcription factor ATF-1; cAMP-dependent transcription factor ATF-1; Activating transcription factor 1; Protein TREB36         Observed Band       29kD         Cell Pathway       Nucleus .         Tissue Specificity       Bone marrow,         Function       disease:A chromosomal aberration involving ATF1 is associated with angiomatoid fibrous histiocytoma (AFH) [MlM: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) [MlM:612160]. Translocation t(12;22)(q13;q12) with EWSR1 generates a chimer 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		
Applications WB  Gene Name ATF1  Protein Name Cyclic AMP-dependent transcription factor ATF-1  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) Monoclonal Antibody detects endogenous levels of ATF-protein only when phosphorylated at S63.  Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  Source Monoclonal, Mouse, IgG  Purification The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.  Dilution WB 1:500-2000  Concentration 1 mg/ml  Purity ≥90%  Storage Stability -20°C/1 year  Synonyms ATF1; Cyclic AMP-dependent transcription factor ATF-1; cAMP-dependent transcription factor ATF-1; Activating transcription factor 1; Protein TREB36  Observed Band 29kD  Cell Pathway Nucleus .  Tissue Specificity Bone marrow,  disease: A chromosomal aberration involving ATF1 is associated with angiomatof fibrous histiocytoma (AFH) [MIM:612160]. Translocation (1(2;16)(q13;p1.2) with USF USF generates a chimeric ATF1/FUSF protein, disease: A chromosomal aberratic involving ATF1 is associated with angiomatoid fibrous histiocytoma (AFH) [MIM:612160]. Translocation (1(2;16)(q13;p1.2) with MIM:6126100]. Translocation (1(2;16)(q13;p1.2) with MIM:612610	Catalog No	BYmab-01289
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Formulation       Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.         Source       Monoclonal, Mouse, IgG         Purification       The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.         Dilution       WB 1:500-2000         Concentration       1 mg/ml         Purity       ≥90%         Storage Stability       -20°C/1 year         Synonyms       ATF1; Cyclic AMP-dependent transcription factor ATF-1; cAMP-dependent transcription factor ATF-1; Activating transcription factor 1; Protein TREB36         Observed Band       29kD         Cell Pathway       Nucleus .         Tissue Specificity       Bone marrow,         Function       disease:A chromosomal aberration involving ATF1 is associated with angiomatoin 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 (TRE) of HTLV-I. Mediates PKA-induced stimulation of CRE-reporter genes, similarity:Belongs to the Tax-responsive element (TRE) of HTLV-I. Mediates PKA-induced stimulation of CRE-reporter genes, similarity:Belongs to	Immunogen	
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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

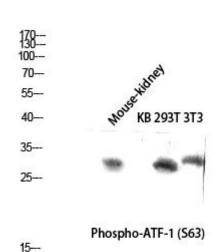
matters needing attention

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 various cells using ATF-1 (phospho Ser63) Monoclonal Antibody

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