10320 Camino Santa Fe, Suite G
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Anti-ATF1 Picoband Antibody

Catalog # ABO11831

Specification

Anti-ATF1 Picoband Antibody - Product Information

Application	**WB, IHC-P**
Primary Accession	P18846
Host	**Rabbit**
Reactivity	**Human, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Cyclic AMP-dependent transcription factor ATF-1(ATF1) detection. Tested with WB, IHC-P in Human;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-ATF1 Picoband Antibody - Additional Information

Gene ID 466

Other Names
Cyclic AMP-dependent transcription factor ATF-1, cAMP-dependent transcription factor ATF-1, Activating transcription factor 1, Protein TREB36, ATF1

Calculated MW
29233 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat
Western blot, 0.1-0.5 µg/ml, Human, Rat

Subcellular Localization
Nucleus.

Protein Name
Cyclic AMP-dependent transcription factor ATF-1

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
E.coli-derived human ATF1 recombinant protein (Position: M1-V271). Human ATF1 shares 91% amino acid (aa) sequence identity with mouse ATF1.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage

At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.

Sequence Similarities
Belongs to the bZIP family. ATF subfamily.

Anti-ATF1 Picoband Antibody - Protein Information

Name ATF1

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. Represses the expression of FTH1 and other antioxidant detoxification genes. Triggers cell proliferation and transformation.

Cellular Location
Nucleus.

Anti-ATF1 Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-ATF1 Picoband Antibody - Images

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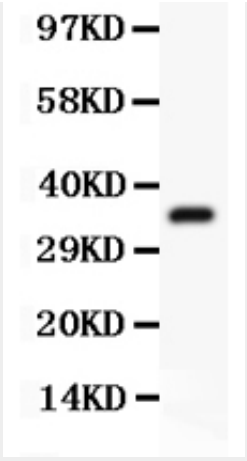
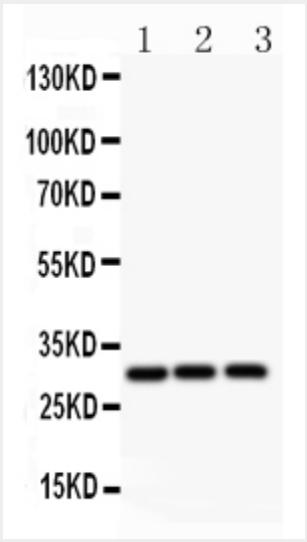
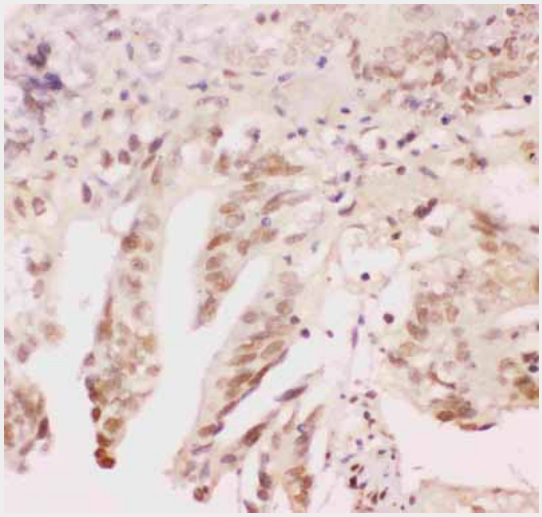


Anti-ATF1 Picoband antibody, ABO11831-1.jpgAll lanes: Anti ATF1 (ABO11831) at 0.5ug/mlWB: Recombinant Human ATF1 Protein 0.5ngPredicted bind size: 36KDObserved bind size: 36KD



Anti-ATF1 Picoband antibody, ABO11831-2.jpgAll lanes: Anti ATF1 (ABO11831) at 0.5ug/mlLane 1: Rat Spleen Tissue Lysate at 50ugLane 2: HELA Whole Cell Lysate at 40ugLane 3: COLO320 Whole Cell Lysate at 40ugPredicted bind size: 29KD Observed bind size: 29KD



Anti-ATF1 Picoband antibody, ABO11831-3.JPGIHC(P): Human Intestinal Cancer Tissue

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Anti-ATF1 Picoband Antibody - Background

ATF1, also known as activating transcription factor 1, is a protein that in humans is encoded by the ATF1 gene. It is mapped to 12q13.12. 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.