

Datasheet for ABIN1713945
anti-ATF2 antibody (pThr51, pThr53)



[Go to Product page](#)

3 Images

Overview

Quantity:	100 µL
Target:	ATF2
Binding Specificity:	pThr51, pThr53
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATF2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunocytochemistry (ICC)

Product Details

Immunogen:	KLH conjugated synthetic phosphopeptide derived from mouse ATF2 around the phosphorylation site of Thr51 + Thr53
Isotype:	IgG
Cross-Reactivity:	Human
Predicted Reactivity:	Mouse,Rat
Purification:	Purified by Protein A.

Target Details

Target:	ATF2
Alternative Name:	ATF2 + (ATF2 Products)
Background:	<p>Synonyms: ATF2 phospho T51 + T53, p-ATF2 phospho T51 + T53, ATF2 phospho Thr51 + Thr53, p-ATF2 phospho Thr51 + Thr53, CREB 2, HB 16, Activating Transcription Factor 2, ATF 2, Atf-2, ATF2 protein, cAMP Response Element Binding Protein 2, cAMP response element binding protein CRE BP1, cAMP-dependent transcription factor ATF-2, cAMP-responsive element-binding protein 2, CRE BP1, CRE-BP, CREB 2, CREB2, CREBP1, Cyclic AMP dependent transcription factor ATF 2, Cyclic AMP-responsive, ATF2_HUMAN.</p> <p>Background: ATF2 is a member of the ATF/CREB family of basic region leucine zipper DNA binding proteins that regulates transcription by binding to a consensus cAMP response element (CRE) in the promoter of various viral and cellular genes. Many of these genes are important in cell growth and differentiation, and in stress and immune responses. ATF2 is a nuclear protein that binds DNA as a dimer and can form dimers with members of the ATF/CREB and Jun/Fos families. It is a stronger activator as a heterodimer with cJun than as a homodimer. Several isoforms of ATF2 arise by differential splicing. The stable native full length ATF2 is transcriptionally inactive as a result of an inhibitory direct intramolecular interaction of its carboxy terminal DNA binding domain with the amino terminal transactivation domain. Following dimerization ATF2 becomes a short lived protein that undergoes ubiquitination and proteolysis, seemingly in a protein phosphatase-dependent mechanism. Stimulation of the transcriptional activity of ATF2 occurs following cellular stress induced by several genotoxic agents, inflammatory cytokines, and UV irradiation. This activation requires phosphorylation of two threonine residues in ATF2 by both JNK/SAP kinase and p38 MAP kinase. ATF2 is abundantly expressed in brain.</p>

Gene ID:	11909
Pathways:	MAPK Signaling , RTK Signaling , Thyroid Hormone Synthesis , Activation of Innate immune Response , Chromatin Binding , Myometrial Relaxation and Contraction , Synaptic Membrane , Tube Formation , Toll-Like Receptors Cascades

Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200
--------------------	---

Application Details

IF(IHC-F) 1:50-200

IF(ICC) 1:50-200

ICC 1:100-500

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: 0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

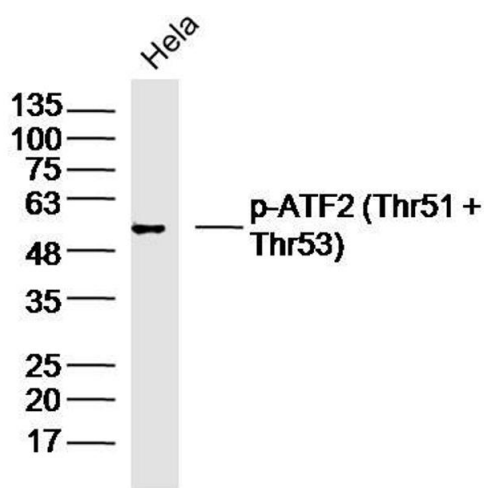
Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date: 12 months

Images



Western Blotting

Image 1. HeLa lysates probed with p-ATF2 (Thr51 + Thr53) Polyclonal Antibody, Unconjugated at 1:300 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at 1:10000 for 60 min at 37°C.

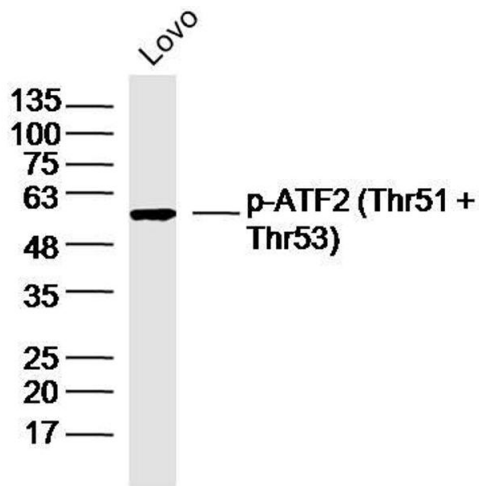


Image 2. LOVO lysates probed with p-ATF2 (Thr51 + Thr53) Polyclonal Antibody, Unconjugated at 1:300 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at 1:10000 for 60 min at 37°C.

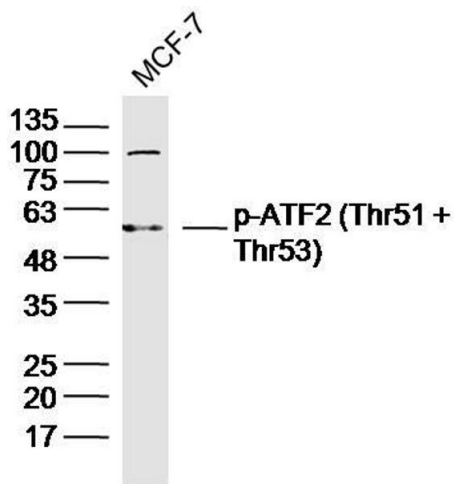


Image 3. MCF-7 lysates probed with p-ATF2 (Thr51 + Thr53) Polyclonal Antibody, Unconjugated at 1:300 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at 1:10000 for 60 min at 37°C.