

Product datasheet for **AP01529PU-N**

ATF2 pSer62/44 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, IP, WB
Recommended Dilution:	ELISA: 1:20000~1:40000. Western Blot: 1:500~1:1000. Immunohistochemistry: 1:50~1:200. Immunoprecipitation: 1:50~1:200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	p-ATF2 (pSer62/44) antibody detects endogenous levels of p-ATF2 protein.
Formulation:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.2. State: Aff - Purified State: Liquid purified Ig
Concentration:	1,0 mg/ml
Purification:	Affinity chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	activating transcription factor 2
Database Link:	Entrez Gene 1386 Human P15336



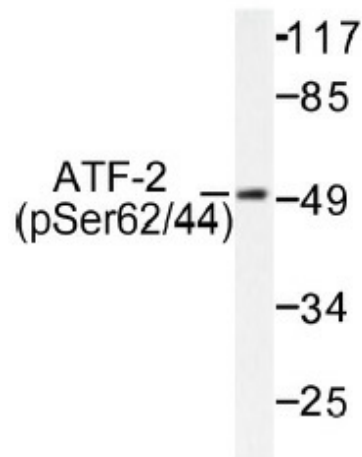
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Background:

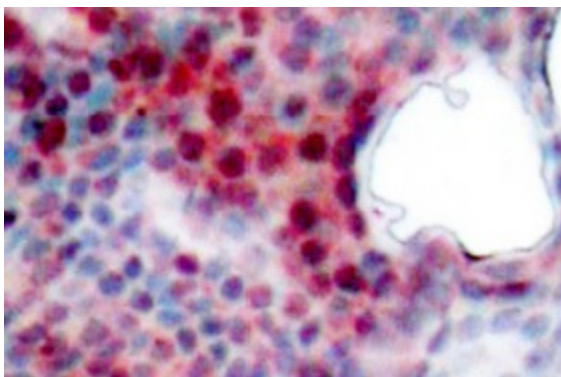
Eukaryotic gene transcription is regulated by sequence-specific transcription factors that bind modular cis acting promoter and enhancer elements. The ATF/ CREB transcription factor family binds the palindromic cAMP response element (CRE) octanucleotide TGACGTCA. The ATF/CREB family includes CREB-1, CREB-2 (also designated ATF-4), ATF-1, ATF-2 and ATF-3. This family of proteins contain highly divergent N-terminal domains, but share a C-terminal leucine zipper for dimerization and DNA binding. ATF-1 is shown to play a key role in the induction of NOX1, this protein binds the cAMP response element (CRE) and mediates PKA-induced stimulation of CRE-reporter genes. ATF-2 forms homodimers and heterodimers with c-Jun to initiate CREdependent transcription. Phosphorylation of ATF-2 at Thr 69 and Thr 71 by stress-activated kinases is necessary for transcriptional activation. Myc also induces phosphorylation of ATF-2 at Thr 69 and Thr 71 to prolong the half-life of ATF-2. ATF-2 functions as a histone acetyltransferase (HAT) and acetylates Histones H2B and H4 specifically in vitro.

Synonyms:

ATF-2, CREB2, CREBP1, Activating transcription factor 2, CRE-BP1, HB16, CREB-2

Product images:

Western blot (WB) analysis of p-ATF2 (pSer62/44) antibody in extracts from HeLa cells.



Immunohistochemistry (IHC) analyzes of p-ATF2 (pSer62/44) antibody in paraffin-embedded human breast carcinoma tissue.