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SL12541R

Product Name:	phospho-ATF2 (Thr71 + Thr53)
Chinese Name:	磷酸化活化复制因子2抗体
Alias:	ATF2 (phospho T71 + T53); p-ATF2 (phospho T71 + T53); ATF2 (phospho T71/T53); ATF2 (phospho Thr71/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.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100- 500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	55kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthesised phosphopeptide derived from human ATF2 around the phosphorylation site of Thr71:TP(p-T)PT
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year



	when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of
	antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
PubMed: Product Detail:	PubMed 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 (CRF) 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. Function: Transcriptional activator, probably constitutive, which binds to the cAMP-responsive clement (CRE) (consensus: 5'-OTGACCT[AC][AG]-3'), a sequence present in many viral and cellular promoters. Interaction with JUN redirects JUN to bind to CRES preferentially over the 12-O-tetradecanoylphorbol-13-acetate response elements (TRES) as part of an ATF2/JUN complex. Subunit: Binds DNA as a dimer and can form a homodimer in the absence of DNA. Can form a heterodimer with JUN Interacts with SMAD3 and SMAD4. Bin
	Similarity:



