

Recombinant Human ATF2

Cat. No. ATF2-26187TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment: MSDDKPFLCT APGCGQRFTN EDHLAVHKHK HEMTLKFGPA RNDVIVADQ TPTPTRFLKN CEEVGLFNEL ASPFENE, corresponding to amino acids 19-96 of Human ATF2 with an N-terminal proprietary tag, MWt 34.8 kDa.
Species	Human
Source	E.coli
ProteinLength	19-96 a.a.
Description	This gene encodes a transcription factor that is a member of the leucine zipper family of DNA binding proteins. This protein binds to the cAMP-responsive element (CRE), an octameric palindrome. The protein forms a homodimer or heterodimer with c-Jun and stimulates CRE-dependent transcription. The protein is also a histone acetyltransferase (HAT) that specifically acetylates histones H2B and H4 in vitro; thus it may represent a class of sequence-specific factors that activate transcription by direct effects on chromatin components. Additional transcript variants have been identified but their biological validity has not been determined.
Tissue specificity	Abundant expression seen in the brain.
Form	Lyophilised
Storage buffer	Preservative: None Constituents: 50% Glycerol, 0.05% Tween 20, 3mM DTT, 25mM

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	Tris HCl, 100mM Sodium chloride, pH 8.0
Storage	Store at -80°C
Sequences of amino acids	MSDDKPFLCTAPGCGQRFTNEDHLAVHKHKHEMTLKFGPARNDSVIVADQTPTPTR FLKNCEEVGLFNELASPFENE
Sequence Similarities	Belongs to the bZIP family. ATF subfamily. Contains 1 bZIP domain. Contains 1 C2H2-type zinc finger.

GENE INFORMATION

Gene Name	ATF2 activating transcription factor 2 [Homo sapiens]
Official Symbol	ATF2
Synonyms	ATF2; activating transcription factor 2; cAMP responsive element binding protein 2 , CREB2; cyclic AMP-dependent transcription factor ATF-2; CRE BP1; HB16; TREB7;
Gene ID	1386
mRNA Refseq	NM_001880
Protein Refseq	NP_001871
MIM	123811
Uniprot ID	P15336
Chromosome Location	2q32

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Pathway

ATF-2 transcription factor network, organism-specific biosystem; Activated TLR4 signalling, organism-specific biosystem; Activation of the AP-1 family of transcription factors, organism-specific biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem;

Function

DNA binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription factor activity involved in positive regulation of transcription; chromatin binding; metal ion binding; protein binding;

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