Recombinant Human ATF2

Cat. No. ATF2-27044TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment with N-terminal tag, corresponding to N terminal amino acids 1-254 of Human ATF2
Species	Human
Source	E.coli
ProteinLength	1-254 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	Liquid
Storage buffer	Preservative: NoneConstituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM PMSF, pH 7.5

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MSDDKPFLCT APGCGQRFTN EDHLAVHKHK HEMTLKFGPA RNDSVIVADQ TPTPTRFLKN CEEVGLFNEL ASPFENEFKK ASEDDIKKMP LDLSPLATPI IRSKIEEPSV VETTHQDSPL PHPESTTSDE KEVPLAQTAQ PTSAIVRPAS LQVPNVLLTS SDSSVIIQQA VPSPTSSTVI TQAPSSNRPI VPVPGPFPLL LHLPNGQTMP VAIPASITSS NVHVPAAVPL VRPVTMVPSV PGIPGPSSPQ PVQS
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

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Chromosome Location	2q32
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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