Active Recombinant Human ATF2, GST-tagged

Cat. No. ATF2-692H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ATF2, GST-tagged protein (aa19-aa96) is isolated from an E. coli strain that carries the coding sequence of the human ATF2 (19-96) under the control of a T7 promoter.
Species	Human
Source	E.coli
Description	The activating transcription factor 2 (ATF2), known as CRE-BP1 (cAMP-responsive element binding protein 1), is a member of the leucine zipper family of DNA binding proteins and binds to both AP-1 and CRE DNA response elements of many viral and cellular promoters. ATF2 is activated by diverse cellular stresses such as inflammatory cytokines, genotoxic agents and UV irradiation. It is activated through phosphorylation at two phospho sites of Thr69 and Thr71 by upstream activators like JNK/p38 (MAPK14, SAPK2A). GST-ATF2 (aa19-aa96) is preferentially used as a useful substrate for MAPK14 and was assayed using MAPK14 (P5049 and R5048) by luminescence-based ATP depletion assay.
Bio-activity	20 units are sufficient for a gel-mobility shift assay and 100 units are sufficient for a protein-protein interactions assay.
Molecular Mass	37.1 kDa
Purity	Greater than 95% as determined by SDS-PAGE.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Applications	It can be applied in vitro phosphorylation assay, DNA and protein-protein interactions assays.
Storage	Stored at -70°C before use. Avoid repeated freeze thaw cycles.
Concentration	2 mg/ml
Storage Buffer	20 mM Tris-Cl (pH 8.0), 20% Glycerol, 100 mM KCl, 1 mM DTT and 0.2 mM EDTA.

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; CREB-2; cAMP-dependent transcription factor ATF-2; cAMP-responsive element-binding protein 2; cAMP response element-binding protein CRE-BP1; cyclic AMP-responsive element-binding protein 2; cAMP responsive element binding protein 2, formerly; activating transcription factor 2 splice variant ATF2-var2; CREB2; CRE-BP1; MGC111558;
Gene ID	1386
mRNA Refseq	NM_001256090
Protein Refseq	NP_001937
MIM	602748

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

UniProt ID	Q16828
Chromosome Location	12q22-q23
Pathway	Activated TLR4 signalling, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; ERK/MAPK targets, organism-specific biosystem; ERKs are inactivated, organism-specific biosystem; ErbB1 downstream signaling, organism-specific biosystem; Immune System, organism-specific biosystem; Innate Immune System, organism-specific biosystem;
Function	MAP kinase tyrosine/serine/threonine phosphatase activity; hydrolase activity; protein tyrosine phosphatase activity;

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA