

## Recombinant Human ATF1, GST-tagged

Cat. No. ATF1-9960H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human ATF1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.

**Species** Human

**Source** E.coli

**ProteinLength** 1-271 a.a.

**Description** This gene encodes an activating transcription factor, which belongs to the ATF subfamily and bZIP (basic-region leucine zipper) family. It influences cellular physiologic processes by regulating the expression of downstream target genes, which are related to growth, survival, and other cellular activities. This protein is phosphorylated at serine 63 in its kinase-inducible domain by serine/threonine kinases, cAMP-dependent protein kinase A, calmodulin-dependent protein kinase I/II, mitogen- and stress-activated protein kinase and cyclin-dependent kinase 3 (cdk-3). Its phosphorylation enhances its transactivation and transcriptional activities, and enhances cell transformation. Fusion of this gene and FUS on chromosome 16 or EWSR1 on chromosome 22 induced by translocation generates chimeric proteins in angiomatoid fibrous histiocytoma and clear cell sarcoma. This gene has a pseudogene on chromosome 6.

**Storage** The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

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**Storage Buffer** 1M PBS (58mM Na<sub>2</sub>HPO<sub>4</sub>, 17mM NaH<sub>2</sub>PO<sub>4</sub>, 68mM NaCl, pH8. ) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

## GENE INFORMATION

**Gene Name** ATF1 activating transcription factor 1 [ Homo sapiens ]

**Official Symbol** ATF1

**Synonyms** ATF1; activating transcription factor 1; cyclic AMP-dependent transcription factor ATF-1; TREB36; cAMP-dependent transcription factor ATF-1; EWS-ATF1; FUS/ATF-1;

**Gene ID** 466

**mRNA Refseq** NM\_005171

**Protein Refseq** NP\_005162

**MIM** 123803

**UniProt ID** P18846

**Chromosome Location** 12q13

**Pathway** Activated TLR4 signalling, organism-specific biosystem; CREB phosphorylation, organism-specific biosystem; EGFR1 Signaling Pathway, organism-specific biosystem; ErbB1 downstream signaling, organism-specific biosystem; HTLV-I infection, organism-specific biosystem; HTLV-I infection, conserved biosystem; IL-3 Signaling Pathway, organism-specific biosystem;

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**Function**

protein complex binding; protein heterodimerization activity; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; sequence-specific distal enhancer binding RNA polymerase II transcription factor activity;

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