

Recombinant Human ATF1

Cat. No. ATF1-27042TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fusion protein, full length human ATF1 expressed by baculovirus in Sf9 insect cells using a N-terminal proprietary tag.
Species	Human
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.
Form	Liquid
Storage buffer	Preservative: None Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium chloride, 0.25mM DTT, 0.1mM PMSF, pH 7.5
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw

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cycles.

Sequence Similarities Belongs to the bZIP family. ATF subfamily. Contains 1 bZIP domain. Contains 1 KID (kinase-inducible) domain.

Full Length Full L.

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;

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

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infection, organism-specific biosystem;

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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