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	1-271a.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℃. Avoid repeated freezing and thawing cycles.

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Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 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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