

Recombinant Full Length Human ATF1 Protein, GST-tagged

Cat. No. ATF1-1061HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ATF1 full-length ORF (AAH29619, 1 a.a. - 271 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	271 amino acids
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. [provided by RefSeq, Aug 2010]
Molecular Mass	55.55 kDa
AA Sequence	MEDSHKSTTS ETAPQPGSAV QGAHISHIAQ QVSSLSESEE SQDSSDSIGS

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SQKAHGILAR RPSYRKILKD LSSDTRGRK GDGENSGVSA AVTSM SVPTP
 IYQTSSGQYI AIAPNGALQL ASPGTDGVQG LQTLTMTNSG STQQGTTILQ
 YAQTSDGQQI LVPSNQVVVQ TASGDMQTYQ IRTTPSATSL PQTVM TSPV
 TLTSQTTKTD DPQLKREIRL MKNREAAREC RRKKKEYVKC LENRVAVLEN
 QNKT LIEELK TLKDLYSNKS V

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
 Antibody Production; Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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](#)

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UniProt ID

P18846

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