

Recombinant Human ATF4 293 Cell Lysate

Cat. No. ATF4-8630HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for activating transcription factor 4 (tax-responsive enhancer element B67) (ATF4), transcript variant 1 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name ATF4 activating transcription factor 4 (tax-responsive enhancer element B67) [Homo sapiens]

Official Symbol ATF4

Synonyms ATF4; activating transcription factor 4 (tax-responsive enhancer element B67); TXREB; cyclic AMP-dependent transcription factor ATF-4; CREB 2; TAXREB67; DNA-binding protein TAXREB67; cAMP response element-binding protein 2; cAMP-dependent transcription factor ATF-4; cAMP-responsive element-binding protein 2; cyclic AMP-responsive element-binding protein 2; tax-responsive enhancer element-binding protein 67; CREB2; CREB-2;

Gene ID 468

mRNA Refseq NM_001675

Protein Refseq NP_001666

MIM 604064

UniProt ID P18848

Chromosome Location 22q13.1

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Pathway

Activation of Chaperone Genes by ATF6-alpha, organism-specific biosystem; Activation of Chaperones by ATF6-alpha, organism-specific biosystem; Activation of Genes by ATF4, organism-specific biosystem; Amphetamine addiction, organism-specific biosystem; Amphetamine addiction, conserved biosystem; Cholinergic synapse, organism-specific biosystem; Cocaine addiction, organism-specific biosystem;

Function

DNA binding; DNA binding; protein binding; protein dimerization activity; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity;

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