

Recombinant Human ATF4 293 Cell Lysate

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

SPECIFICATION

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.
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

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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](#)

Pathway [Activation of Chaperone Genes by ATF6-alpha, organism-specific biosystem](#); [Activation of Chaperones by ATF6-alpha, organism-specific biosystem](#); [Activation of](#)

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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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