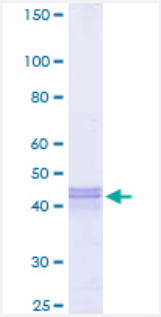
ATF4 (Human) Recombinant Protein (Q01)

Catalog # H00000468-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human ATF4 partial ORF (NP_001666.2, 171 a.a. - 270 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	SSTPDHSFSLELGSEVDITEGDRKPDYTAYVAMIPQCIKEEDTPSDNDSGICMSPESYLGSPQHSP STRGSPNRSLPSPGVLCGSARPKPYDPPGEKMVA
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

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

Gene Info — ATF4

Entrez GeneID	468
GeneBank Accession#	NM_001675
Protein Accession#	NP_001666.2
Gene Name	ATF4
Gene Alias	CREB-2, CREB2, TAXREB67, TXREB
Gene Description	activating transcription factor 4 (tax-responsive enhancer element B67)
Omim ID	604064
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a transcription factor that was originally identified as a widely expressed mammalian DNA binding protein that could bind a tax-responsive enhancer element in the LTR of HTLV-1. The encoded protein was also isolated and characterized as the cAMP-response element binding protein 2 (CREB-2). The protein encoded by this gene belongs to a family of DNA-binding proteins that includes the AP-1 family of transcription factors, cAMP-response element binding proteins (CREBs) and CREB-like proteins. These transcription factors share a leucine zipper region that is involved in protein-protein interactions, located C-terminal to a stretch of basic amino acids that functions as a DNA binding domain. Two alternative transcripts encoding the same protein have been described. Two pseudogenes are located on the X chromsome at q28 in a region containing a large inverted duplication. [provided by RefSeq
Other Designations	activating transcription factor 4|cAMP response element-binding protein 2

Pathway

- GnRH signaling pathway

- Long-term potentiation
- MAPK signaling pathway
- Neurotrophin signaling pathway
- Prostate cancer

Disease

- Bipolar Disorder
- Genetic Predisposition to Disease
- Mental Disorders
- Neuropsychological Tests
- Schizophrenia