

Recombinant Human ATF6B

Cat. No. ATF6B-26189TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 2-88 of Human ATF6 beta, with an N-terminal proprietary tag, predicted MWt 35.2 kDa
Species	Human
Source	Wheat Germ
ProteinLength	87 amino acids
Description	<p>The protein encoded by this gene is a transcription factor in the unfolded protein response (UPR) pathway during ER stress. Either as a homodimer or as a heterodimer with ATF6-alpha, the encoded protein binds to the ER stress response element, interacting with nuclear transcription factor Y to activate UPR target genes. The protein is normally found in the membrane of the endoplasmic reticulum; however, under ER stress, the N-terminal cytoplasmic domain is cleaved from the rest of the protein and translocates to the nucleus. Two transcript variants encoding different isoforms have been found for this gene.</p>
Molecular Weight	35.200kDa inclusive of tags
Tissue specificity	Ubiquitous.
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	AELMLLSEIADPTRFFTDNLLSPEDWGLQNSTLYSGLDEVAEEQTQLFRCPEQDVPF DGSSLDVGMVSPSEPPWELLPIFPDLQVK
Sequence Similarities	Belongs to the bZIP family. ATF subfamily. Contains 1 bZIP domain.

GENE INFORMATION

Gene Name	ATF6B activating transcription factor 6 beta [Homo sapiens]
Official Symbol	ATF6B
Synonyms	ATF6B; activating transcription factor 6 beta; cAMP responsive element binding protein like 1 , CREBL1; cyclic AMP-dependent transcription factor ATF-6 beta; G13;
Gene ID	1388
mRNA Refseq	NM_001136153
Protein Refseq	NP_001129625
MIM	600984
Uniprot ID	Q99941
Chromosome Location	6p21.3

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Pathway

Dopaminergic synapse, organism-specific biosystem; Dopaminergic synapse, conserved biosystem; G1 to S cell cycle control, organism-specific biosystem; Myometrial Relaxation and Contraction Pathways, organism-specific biosystem; Protein processing in endoplasmic reticulum, organism-specific biosystem;

Function

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

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