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	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.
Molecular Weight	35.200kDa inclusive of tags
Tissue specificity	Ubiquitous.
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00Constituents: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 DGSSLDVGMDVSPSEPPWELLPIFPDLQVK
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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