Recombinant Human ATF6B, GST-tagged

Cat. No. ATF6B-9965H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ATF6B protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-318a.a.
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.
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100,15%glycerol.

GENE INFORMATION

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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; ATF6-beta; protein G13; Creb-related protein; cAMP responsive element binding protein-like 1; cAMP-dependent transcription factor ATF-6 beta; cAMP-responsive element-binding protein-like 1; cAMP response element-binding protein-related protein; CREBL1; CREB-RP; FLJ10066;
Gene ID	1388
mRNA Refseq	NM_001136153
Protein Refseq	NP_001129625
MIM	600984
UniProt ID	Q99941
Chromosome Location	6p21.3
Pathway	Amphetamine addiction, organism-specific biosystem; Amphetamine addiction, conserved biosystem; Cocaine addiction, organism-specific biosystem; Cocaine addiction, conserved biosystem; Dopaminergic synapse, organism-specific biosystem; Dopaminergic synapse, conserved biosystem; G1 to S cell cycle control, organism-specific biosystem;
Function	protein dimerization activity; sequence-specific DNA binding; sequence-specific DNA

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	binding transcription factor activity;

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