

Recombinant Human ATF6B, GST-tagged

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

SPECIFICATION

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| 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 | <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.</p> <p>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> |
| Storage | The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles. |
| Storage Buffer | 1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 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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