



## ATF6 blocking peptide (CDBP5114)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

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| <b>Antigen Description</b> | This gene encodes a transcription factor that activates target genes for the unfolded protein response (UPR) during endoplasmic reticulum (ER) stress. Although it is a transcription factor, this protein is unusual in that it is synthesized as a transmembrane protein that is embedded in the ER. It functions as an ER stress sensor/transducer, and following ER stress-induced proteolysis, it functions as a nuclear transcription factor via a cis-acting ER stress response element (ERSE) that is present in the promoters of genes encoding ER chaperones. This protein has been identified as a survival factor for quiescent but not proliferative squamous carcinoma cells. There have been conflicting reports about the association of polymorphisms in this gene with diabetes in different populations, but another polymorphism has been associated with increased plasma cholesterol levels. This gene is also thought to be a potential therapeutic target for cystic fibrosis. [provided by RefSeq, Aug 2011] |
| <b>Conjugate</b>           | Unconjugated  |
| <b>Applications</b>        | Used as a blocking peptide in immunoblotting applications.  |
| <b>Format</b>              | Liquid  |
| <b>Concentration</b>       | 200 µg/mL   |
| <b>Size</b>                | 0.05 mg   |
| <b>Preservative</b>        | None  |
| <b>Storage</b>             | -20°C   |

### GENE INFORMATION

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| <b>Gene Name</b>       | <a href="#">ATF6 activating transcription factor 6 [ Homo sapiens (human) ]</a> |
| <b>Official Symbol</b> | ATF6  |

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| <b>Synonyms</b>       | ATF6; activating transcription factor 6; ATF6A; cyclic AMP-dependent transcription factor ATF-6 alpha; cAMP-dependent transcription factor ATF-6 alpha  |
| <b>Entrez Gene ID</b> | <a href="#">22926</a>   |
| <b>mRNA Refseq</b>    | <a href="#">NM_007348</a>   |
| <b>Protein Refseq</b> | <a href="#">NP_031374</a>   |
| <b>UniProt ID</b>     | P18850  |
| <b>Pathway</b>        | ATF4 activates genes; ATF6-alpha activates chaperone genes; ATF6-alpha activates chaperones; Alzheimer's disease; Alzheimers Disease; Metabolism of proteins; PERK regulates gene expression; Protein processing in endoplasmic reticulum |
| <b>Function</b>       | protein binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; transcription coactivator activity   |

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