



ATF6 blocking peptide (CDBP5114)

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

PRODUCT INFORMATION

Antigen Description

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]

Conjugate	Unconjugated
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Applications	Used as a blocking peptide in immunoblotting applications.
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Format	Liquid
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Concentration	200 µg/mL
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Size	0.05 mg
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Preservative	None
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Storage	-20°C
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GENE INFORMATION

Gene Name	ATF6 activating transcription factor 6 [Homo sapiens (human)]
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Official Symbol	ATF6
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Synonyms	ATF6; activating transcription factor 6; ATF6A; cyclic AMP-dependent transcription factor ATF-6 alpha; cAMP-dependent transcription factor ATF-6 alpha
Entrez Gene ID	22926
mRNA Refseq	NM_007348
Protein Refseq	NP_031374
UniProt ID	P18850
Pathway	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
Function	protein binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; transcription coactivator activity