CREB1 Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	CREB1, Blocking Peptide
Full Product Name	CREB1 Peptide - middle region
Product Gene Name	CREB1 blocking peptide
Product Synonym Gene Name	CREB; MGC9284
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	CREB1 peptide (MBS3229818) is used for blocking the activity of CREB1 antibody (MBS3204853)
Molecular Weight	37kDa
OMIM	123810
Product Categories/Family for CREB1 blocking peptide	Peptide
Applications Tested/Suitable for CREB1 blocking peptide	Western Blot (WB)
Related Product Information for CREB1 blocking peptide	This is a synthetic peptide designed for use in combination with anti-CREB1 antibody made Target Description: CREB1 is a transcription factor that is a member of the leucine zipper family of DNA binding proteins. This protein binds as a homodimer to the cAMP-responsive element, an octameric palindrome. The protein is phosphorylated by several protein kinases, and induces transcription of genes in response to hormonal stimulation of the cAMP pathway. This gene encodes a transcription factor that is a member of the leucine zipper family of DNA binding proteins. This protein binds as a homodimer to the cAMP-responsive element, an octameric palindrome. The protein is phosphorylated by several protein kinases, and induces transcription of genes in response to hormonal stimulation of the cAMP pathway. Alternate splicing of this gene results in two transcript variants encoding different isoforms.
Other Notes	Small volumes of CREB1 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CREB1 purchase	MBS3229818 is a blocking peptide targeting CREB1. Also known as CREB1 Peptide - middle region.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CREB1. It may not necessarily be applicable to this product.

NCBI GI #	19745184
NCBI GeneID	1385
NCBI Accession #	NP_604391
UniProt Primary Accession #	P16220
UniProt Related Accession #	P16220
GenBank Nucleotide #	NM_134442
NCBI Official Full Name	cyclic AMP-responsive element-binding protein 1 isoform B

NCBI Official Synonym Full Names	cAMP responsive element binding protein 1
NCBI Official Symbol	CREB1
NCBI Official Synonym Symbols	CREB; CREB-1
UniProt Protein Name	Cyclic AMP-responsive element-binding protein 1
Protein Family	Cyclic AMP-responsive element-binding protein
UniProt Gene Name	CREB1
UniProt Synonym Gene Names	CREB-1
UniProt Entry Name	CREB1_HUMAN
NCBI Protein Information	cyclic AMP-responsive element-binding protein 1
NCBI Summary for CREB1	This gene encodes a transcription factor that is a member of the leucine zipper family of DNA binding proteins. This protein binds as a homodimer to the cAMP-responsive element, an octameric palindrome. The protein is phosphorylated by several protein kinases, and induces transcription of genes in response to hormonal stimulation of the cAMP pathway. Alternate splicing of this gene results in several transcript variants encoding different isoforms. [provided by RefSeq, Mar 2016]
UniProt Comments for CREB1	CREB: a transcription factor of the leucine zipper family of DNA binding proteins. Binds as a homodimer to the cAMP-responsive element (CRE). Phosphorylated by several protein kinases, and induces transcription of genes in response to hormonal stimulation of the cAMP pathway. Two splice-variant isoforms have been described. Protein type: Transcription factor; DNA-binding Chromosomal Location of Human Ortholog: 2q34 Cellular Component: nucleoplasm; nucleus Molecular Function: RNA polymerase II transcription factor activity, enhancer binding; protein binding; enzyme binding; transcription cofactor activity; transcription factor activity Biological Process: transcription from RNA polymerase II promoter; circadian rhythm; lactation; axon guidance; response to glucagon stimulus; viral reproduction; nerve growth factor receptor signaling pathway; positive regulation of osteoclast differentiation; positive regulation of transcription, DNA-dependent; stress-activated MAPK cascade; positive regulation of multicellular organism growth; toll-like receptor 3 signaling pathway; signal transduction; protein amino acid phosphorylation; toll-like receptor 10 signaling pathway; response to organic substance; toll-like receptor 5 signaling pathway; synaptic transmission; toll-like receptor 4 signaling pathway; response to drug; epidermal growth factor receptor signaling pathway; mitochondrion organization and biogenesis; Notch signaling pathway; fibroblast growth factor receptor signaling pathway; phosphoinositide-mediated signaling; protein stabilization; secretory granule organization and biogenesis; MyD88-independent toll-like receptor signaling pathway; organelle organization and biogenesis; positive regulation of hormone secretion; positive regulation of lipid biosynthetic process; memory; toll-like receptor 2 signaling pathway; MyD88-dependent toll-like receptor signaling pathway; phospholipase C activation; pituitary gland development; toll-like receptor signaling pathway; positive regulation of fat cell differentiation; innate immune response; positive regulation of transcription from RNA polymerase II promoter; toll-like receptor 9 signaling pathway; regulation of cell size Disease: Histiocytoma, Angiomatoid Fibrous
Research Articles on CREB1	**1.** High CREB1 expression is associated with Neuroblastoma.
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