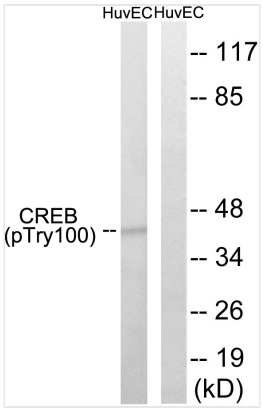
CREB Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CREB, Polyclonal Antibody
Full Product Name	CREB (Phospho-Thr100) Antibody
Product Gene Name	anti-CREB antibody
Product Synonym Names	cAMP responsive element binding protein 1; cAMP-response element binding protein; CREB-1; CREB1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy usi
Concentration	1.0 mg/ml (lot specific)
Specificity	The antibody detects endogenous levels of CREB only when phosphorylated at threonine 100.
Preparation and Storage	Store at -20 degree C
Molecular Weight	25,445 Da
OMIM	123810
3D Structure	ModBase 3D Structure for P16220
Immunogen Type	peptide
Immunogen Description	Peptide sequence around phosphorylation site of threonine 100 (S-G-T(p)-Q-I) derived from Human CREB.
Modification	Phospho-Thr100
Target Name	CREB
Product Categories/Family for anti-CREB antibody	Phospho-specific Ab
Applications Tested/Suitable for anti-CREB antibody	Western Blot (WB)
Application Notes for anti-CREB antibody	Western blotting: 1:500~1:3000
Related Product Information for anti-CREB antibody	Phosphorylation-dependent transcription factor that stimulates transcription upon binding to the DNA cAMP response element (CRE), a sequence present in many viral and cellular promoters. Transcription activation is enhanced by the TORC coactivators which act independently of Ser-133 phosphorylation. Involved in different cellular processes including the synchronization of circadian rhythmicity and the differentiation of adipose cells.
Other Notes	Small volumes of anti-CREB antibody 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 CREB purchase	MBS9410951 is an antibody targeting CREB. Also known as CREB (Phospho-Thr100) Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-CREB antibody
Western blot analysis of extracts from HUVEC cells, treated with etoposide (25uM, 24hours), using CREB (Phospho-Thr100) antibody. The lane on the right is treated with the synthesized peptide.

ADDITIONAL DETAILS

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

NCBI GI #	4758054
NCBI GeneID	1385
NCBI Accession #	NP_004370.1
UniProt Primary Accession #	P16220
UniProt Secondary Accession #	P21934; Q6V963; Q9UMA7
UniProt Related Accession #	P16220
GenBank Nucleotide #	NM_004379.3
NCBI Official Full Name	cyclic AMP-responsive element-binding protein 1 isoform A
NCBI Official Synonym Full Names	cAMP responsive element binding protein 1
NCBI Official Symbol	CREB1
NCBI Official Synonym Symbols	CREB
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; cAMP-responsive element-binding protein 1
UniProt Entry Name	CREB1_HUMAN
NCBI Protein Information	cyclic AMP-responsive element-binding protein 1
NCBI Summary for CREB	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. [provided by RefSeq, Jul 2008]

UniProt Comments for CREB	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: DNA-binding; Transcription factor 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; lactation; circadian rhythm; 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; toll-like receptor 3 signaling pathway; positive regulation of multicellular organism growth; signal transduction; protein amino acid phosphorylation; toll-like receptor 10 signaling pathway; toll-like receptor 5 signaling pathway; response to organic substance; synaptic transmission; toll-like receptor 4 signaling pathway; response to drug; epidermal growth factor receptor signaling pathway; mitochondrion organization and biogenesis; Notch signaling pathway; phosphoinositide-mediated signaling; fibroblast growth factor receptor signaling pathway; protein stabilization; secretory granule organization and biogenesis; organelle organization and biogenesis; MyD88-independent toll-like receptor signaling pathway; 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; innate immune response; positive regulation of fat cell differentiation; 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 CREB	**1.** Data showed an association of a rare CREB1 haplotype CCGGC with schizophrenia.
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