CREB1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CREB1, Polyclonal Antibody
Full Product Name	CREB1, p43 (cAMP Response Element Binding Protein) (Biotin)
Product Gene Name	anti-CREB1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified Ig
Specificity	Human cyclic AMP responsive element binding protein-1 (CREB-1, p43). By Western blot it shows a major band at 46kD when assayed against a lysate of 1x10e6 Raji B cells. Minor bands at 75kD and 43kD may be noted. Partial reactivity to CREM-1 protein. May react non-specifically with other proteins. Species Crossreactivity: Human, rat, mouse.
Preparation and Storage	Maintain frozen at -20 degree C in undiluted aliquots for up to six months. Avoid repeated freeze/thaw cycles.
Molecular Weight	36,688 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (208394616..208470284). Location: 2q34
OMIM	123810
3D Structure	ModBase 3D Structure for P16220
Immunogen	CREB-1 (p43) peptide corresponding to the N-terminal (aa 5-45) of human protein conjugated to KLH.
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-CREB1 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-CREB1 antibody	Western Blot (WB), Immunoprecipitation (IP)
Application Notes for anti-CREB1 antibody	WB: 1:500-1:1,000 Immunoprecipitation EIA Supershift assay: 05-10ml per assay Applications are based on unconjugated antibody.
Related Product Information for anti-CREB1 antibody	MBS6470614 is an antibody targeting CREB1. Also known as CREB1, p43 (cAMP Response Element Binding Protein) (Biotin). Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-CREB1 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CREB1. 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
UniProt Entry Name	CREB1_HUMAN
NCBI Protein Information	cyclic AMP-responsive element-binding protein 1; CREB-1; transactivator protein; active transcription factor CREB; cAMP-response element-binding protein-1; cAMP-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 two transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]

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.** A significant interaction shows that CREB1 rs4675690 polymorphism modulates the effect of childhood sexual abuse on adulthood anger-trait levels.
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