Mouse anti-Human CREB Monoclonal Antibody | anti-CREB1 antibody

Anti-CREB Antibody, Mouse Monoclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA254327	**Mouse**	**Human**	**Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay**

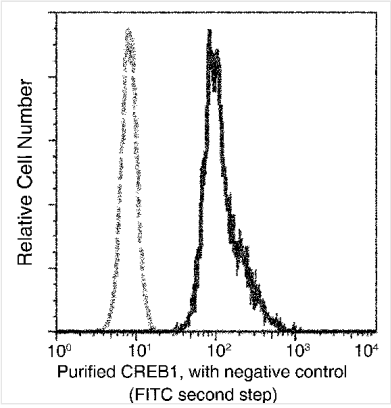
PRODUCT SYNONYMS

CREB; Monoclonal Antibody; Anti-CREB Antibody; Mouse Monoclonal; CREB1 Antibody; Mouse MAb; cAMP responsive element binding protein 1; anti-CREB1 antibody

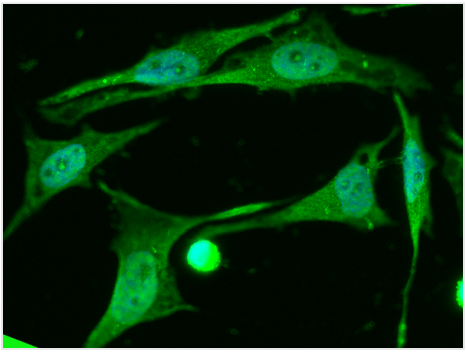
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG2b
Clone Number	02
Specificity	Human CREB1
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-CREB1 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry)
Immunogen	Recombinant Human CREB1 Protein
Conjugation	Unconjugated
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human CREB1 (rh CREB1). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



FCM/FACS (Flow Cytometry)
Flow cytometric analysis of Human CREB1 expression on HepG2 cells. The cells were treated according to manufacturer's manual (BD Pharmingen'), stained with purified anti-Human CREB1, then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.



IF (Immunofluorescence)
Immunofluorescence staining of Human CREB1 in Hela cells. Cells were fixed with 4% PFA, permeabilzed with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with Mouse anti-Human CREB1 monoclonal antibody (1:60) at 37 degree C 1 hour. Then cells were stained with the Alexa Fluor 488-conjugated Goat Anti-mouse IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to nucleus.

ADDITIONAL INFORMATION

Related Product Information for anti-CREB1 antibody	CAMP responsive element binding protein 1, also known as CREB-1, plays multiple functions as a transcription factor in gene regulation. This protein is a CREB transcription factor that is a member of the leucine zipper family of DNA-binding proteins. CREB1 proteins are also known to be expressed in several spliced isoforms that act as transcriptional activators or repressors. The activator isoforms, possessing the functional domains for kinase induction and for interaction with other transcriptional regulators, act as transcriptional activators.The protein is phosphorylated by several protein kinases, and induces transcription of genes in response to hormonal stimulation of the cAMP pathway. CREB-1 has a complex influence on behavioural responses to drugs of abuse which varies depending on the brain region in which it is expressed. CREB-1 is important for serotonin (5-HT)-induced long-term facilitation (LTF) of the sensorimotor synapse in Aplysia.
Product Categories/Family for anti-CREB1 antibody	AKT Signaling Pathway
References	Sadamoto H, et al. (2011) Direct observation of dimerization between different CREB1 isoforms in a living cell. PLoS One. 6 (6): e20285.Liu RY, et al. (2011) The requirement for enhanced CREB1 expression in consolidation of long-term synaptic facilitation and long-term excitability in sensory neurons of Aplysia. J Neurosci. 31 (18): 6871-9.Hoeffler JP, et al. (1988) Cyclic AMP-responsive DNA-binding protein: structure based on a cloned placental cDNA. Science. 242 (4884): 1430-3.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4758054
NCBI GeneID	1385
NCBI Accession #	NP_004370.1
NCBI GenBank Nucleotide #	NM_004379.3
UniProt Accession #	P16220; P21934; Q6V963; Q9UMA7
Molecular Weight	36,688 Da
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

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
UniProt Protein Name	Cyclic AMP-responsive element-binding protein 1
UniProt Gene Name	**CREB1**
UniProt Synonym Gene Names	CREB-1
UniProt Entry Name	CREB1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://www.aaabiotech.com/monoclonal/creb-antibody-clone-02-immunofluorescence-immunocytochemistry-flow-cytometry-elisa/254327