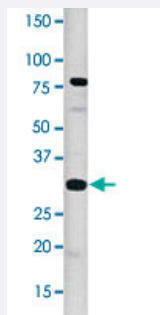


CREB1 (phospho S133) polyclonal antibody

Catalog # PAB0445

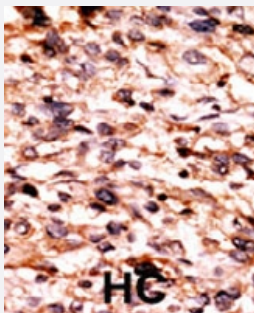
Size 400 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of CREB1 (phospho S133) polyclonal antibody (Cat # PAB0445) in CEM cell lysate (35ug/lane). Phospho-CREB1-S133 (arrow) was detected using the purified polyclonal antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human hepatocellular carcinoma tissue reacted with CREB1 (phospho S133) polyclonal antibody (Cat # PAB0445) which was peroxidase-conjugated to the secondary antibody followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. HC = hepatocarcinoma.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of CREB1.
Immunogen	Synthetic phosphopeptide (conjugated with KLH) corresponding to residues surrounding S133 of human CREB1.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification

Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:50-100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

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Gene Info — CREB1

Entrez GeneID	1385
Protein Accession#	NP_604391:P16220
Gene Name	CREB1
Gene Alias	CREB, MGC9284
Gene Description	cAMP responsive element binding protein 1
Omim ID	123810
Gene Ontology	Hyperlink
Gene Summary	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]

Other Designations

active transcription factor CREB|cAMP-response element-binding protein-1|transactivator protein

Publication Reference

- [Cyclic AMP response element-binding protein positively regulates production of IFN-gamma by T cells in response to a microbial pathogen.](#)

Samten B, Howard ST, Weis SE, Wu S, Shams H, Townsend JC, Safi H, Barnes PF.

Journal of Immunology 2005 May; 174(10):6357.

Application: WB, Human, PBMCs

- [Genome-wide analysis of cAMP-response element binding protein occupancy, phosphorylation, and target gene activation in human tissues.](#)

Zhang X, Odom DT, Koo SH, Conkright MD, Canettieri G, Best J, Chen H, Jenner R, Herbolsheimer E, Jacobsen E, Kadam S, Ecker JR, Emerson B, Hogenesch JB, Unterman T, Young RA, Montminy M.

PNAS 2005 Mar; 102(12):4459.

Application: ChIP, WB, Human, HEK 293T cells

- [Prostaglandin E2 induces MUC8 gene expression via a mechanism involving ERK MAPK/RSK1/cAMP response element binding protein activation in human airway epithelial cells.](#)

Cho KN, Choi JY, Kim CH, Baek SJ, Chung KC, Moon UY, Kim KS, Lee WJ, Koo JS, Yoon JH.

The Journal of Biological Chemistry 2005 Feb; 280(8):6676.

Application: EMSA, WB-Tr, Human, NCI-H292 cells

Pathway

- [Antigen processing and presentation](#)
- [Melanogenesis](#)
- [Prostate cancer](#)

Disease

- [Alcoholism](#)
- [Alzheimer disease](#)
- [Anorexia Nervosa](#)

- [Arousal](#)
- [Asthma](#)
- [Avoidance Learning](#)
- [Bipolar Disorder](#)
- [Bulimia](#)
- [Cardiovascular Diseases](#)
- [Choice Behavior](#)
- [Cognition](#)
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