

Phospho-CREB(S133) Antibody Blocking peptide
Synthetic peptide
Catalog # BP3077a**Specification**

Phospho-CREB(S133) Antibody Blocking peptide - Product InformationPrimary Accession [P16220](#)**Phospho-CREB(S133) Antibody Blocking peptide - Additional Information****Gene ID** 1385**Other Names**

Cyclic AMP-responsive element-binding protein 1, CREB-1, cAMP-responsive element-binding protein 1, CREB1

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP3077a](/product/products/AP3077a) was selected from the region of human Phospho-CREB-S133. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Phospho-CREB(S133) Antibody Blocking peptide - Protein Information**Name** CREB1**Function**

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 (By similarity). Transcription activation is enhanced by the TORC coactivators which act independently of Ser-119 phosphorylation (PubMed: <http://www.uniprot.org/citations/14536081> target="_blank">14536081). Involved in different cellular processes including the synchronization of circadian rhythmicity and the differentiation of adipose cells (By similarity). Regulates the expression of apoptotic and inflammatory response factors in cardiomyocytes in response to ERFE-mediated activation of AKT signaling (By similarity).

Cellular Location

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00312, ECO:0000255|PROSITE-ProRule:PRU00978,

ECO:0000269|PubMed:12552083}

Phospho-CREB(S133) Antibody Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

Phospho-CREB(S133) Antibody Blocking peptide - Images

Phospho-CREB(S133) Antibody Blocking peptide - Background

CREB 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, (CRE), a sequence present in many viral and cellular promoters. The protein is phosphorylated by several protein kinases, and induces transcription of genes in response to hormonal stimulation of the cAMP pathway.

Phospho-CREB(S133) Antibody Blocking peptide - References

Samten, B., et al., J. Immunol. 174(10):6357-6363 (2005).Zhang, X., et al., Proc. Natl. Acad. Sci. U.S.A. 102(12):4459-4464 (2005).Cho, K.N., et al., J. Biol. Chem. 280(8):6676-6681 (2005).Bailey, J., et al., J. Mol. Endocrinol. 34(1):1-17 (2005).Perry, C., et al., Neoplasia 6(3):279-286 (2004).