10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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

Specification

Phospho-CREB(S133) Antibody Blocking peptide - Product Information

Primary 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 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: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).