

CREB peptide ab204856

製品の詳細

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|-------------|--------------|
| 製品名 | CREB peptide |
| 精製度 | > 96 % HPLC. |
| Animal free | No |
| 由来 | Synthetic |
| 配列 | KRREILSRPSYR |
| 領域 | 109 to 121 |

特性

Our **Abpromise guarantee** covers the use of **ab204856** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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|----------|--------------------|
| アプリケーション | HPLC |
| | Functional Studies |

製品の状態 Lyophilized

備考 ab204856 (CREB peptide) can be utilized as a substrate for the following active protein kinases:

- ab190396** (Active human KSR1 protein fragment)
- ab185259** (Active human KSR2 protein fragment)
- ab56268** (Active human cAMP Protein Kinase Catalytic subunit full length protein)
- ab60837** (Active human PKA beta (catalytic subunit) full length protein)
- ab60838** (Active human PKA gamma (catalytic subunit) full length protein)
- ab60839** (Active X. laevis PKC alpha full length protein)
- ab55672** (Active human PKC alpha full length protein)
- ab60841** (Active human PKC beta 2 full length protein)
- ab60844** (Active human PKC delta full length protein)
- ab60850** (Active human PKC iota full length protein)
- ab89860** (Active human PKN2 full length protein)
- ab60873** (Active human PKC mu full length protein)
- ab60874** (Active human PKC nu full length protein)
- ab60848** (Active human PKC zeta full length protein)
- ab60875** (Active human Protein Kinase D2 full length protein)
- ab139624** (Active human STK19 full length protein)

前処理および保存

保存方法および安定性

Shipped at 4°C. Store at -20°C. Avoid freeze / thaw cycle.

再構成

Dilute peptide in 20mM Tris-HCl, pH 7.5 solution to a final concentration of 1 mg/ml. For optimal storage, aliquot diluted product into smaller quantities and store at recommended temperature.

関連情報

機能

This protein binds the cAMP response element (CRE), a sequence present in many viral and cellular promoters. CREB stimulates transcription on binding to the CRE. Transcription activation is enhanced by the TORC coactivators which act independently of Ser-133 phosphorylation. Implicated in synchronization of circadian rhythmicity.

関連疾患

Defects in CREB1 may be a cause of angiomatoid fibrous histiocytoma (AFH) [MIM:612160]. A distinct variant of malignant fibrous histiocytoma that typically occurs in children and adolescents and is manifest by nodular subcutaneous growth. Characteristic microscopic features include lobulated sheets of histiocyte-like cells intimately associated with areas of hemorrhage and cystic pseudovascular spaces, as well as a striking cuffing of inflammatory cells, mimicking a lymph node metastasis. Note=A chromosomal aberration involving CREB1 is found in a patient with angiomatoid fibrous histiocytoma. Translocation t(2;22)(q33;q12) with CREB1 generates a EWSR1/CREB1 fusion gene that is most common genetic abnormality in this tumor type.

配列類似性

Belongs to the bZIP family.
Contains 1 bZIP domain.
Contains 1 KID (kinase-inducible) domain.

翻訳後修飾

Stimulated by phosphorylation. Phosphorylation of both Ser-133 and Ser-142 in the SCN regulates the activity of CREB and participates in circadian rhythm generation. Phosphorylation of Ser-133 allows CREBBP binding (By similarity). Phosphorylated upon DNA damage, probably by ATM or ATR.
Sumoylated by SUMO1. Sumoylation on Lys-304, but not on Lys-285, is required for nuclear localization of this protein. Sumoylation is enhanced under hypoxia, promoting nuclear localization and stabilization.

細胞内局在

Nucleus.

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