

## Product datasheet

# ERK1 peptide (10-21) ab45733

### Overview

**Product name** ERK1 peptide (10-21)

### Description

**Nature** Synthetic

#### Amino Acid Sequence

**Species** Human

**Sequence** C-GGEP~~RR~~TEGVGP

**Amino acids** 10 to 21

### Specifications

Our [Abpromise guarantee](#) covers the use of **ab45733** in the following tested applications.

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

**Applications** Blocking - Blocking peptide for Anti-ERK1 antibody ([ab31284](#))

**Form** Liquid

### Preparation and Storage

**Stability and Storage** Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

### General Info

**Function** Involved in both the initiation and regulation of meiosis, mitosis, and postmitotic functions in differentiated cells by phosphorylating a number of transcription factors such as ELK-1. Phosphorylates EIF4EBP1; required for initiation of translation. Phosphorylates microtubule-associated protein 2 (MAP2). Phosphorylates SPZ1 (By similarity). Phosphorylates heat shock factor protein 4 (HSF4).

**Sequence similarities** Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MAP kinase subfamily.

Contains 1 protein kinase domain.

**Domain** The TXY motif contains the threonine and tyrosine residues whose phosphorylation activates the MAP kinases.

**Post-translational modifications**

Dually phosphorylated on Thr-202 and Tyr-204, which activates the enzyme. Dephosphorylated by PTPRJ at Tyr-204.

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