Product datasheet

Anti-ERK1 + ERK2 antibody ab196883

17 References  2 Images

Overview

Product name  Anti-ERK1 + ERK2 antibody
Description  Rabbit polyclonal to ERK1 + ERK2
Host species  Rabbit
Tested applications  Suitable for: WB
Species reactivity  Reacts with: Mouse, Rat, Human
Immunogen  Synthetic peptide within Human ERK 1/2 (Total) (internal sequence). The exact sequence is proprietary.
Database link: P28482
Positive control  WB: K562 and NIH/3T3 cell lysates.

Properties

Form  Liquid
Storage buffer  pH: 7.40
Preservative: 0.02% Sodium azide
Constituents: 50% Glycerol, PBS, 0.87% Sodium chloride
PBS without Mg2+ and Ca2+
Purity  Immunogen affinity purified
Clonality  Polyclonal
Isotype  IgG

Applications

Our Abpromise guarantee covers the use of ab196883 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
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 ELK1. Phosphorylates EIF4EBP1; required for initiation of translation. Phosphorylates microtubule-associated protein 2 (MAP2). Phosphorylates SPZ1 (By similarity). Phosphorylates heat shock factor protein 4 (HSF4) and ARHGEF2.
Acts as a transcriptional repressor. Binds to a [GC]AAA[GC] consensus sequence. Repress the expression of interferon gamma-induced genes. Seems to bind to the promoter of CCL5, DMP1, IFIH1, IFITM1, IRF7, IRF9, LAMP3, OAS1, OAS2, OAS3 and STAT1. Transcriptional activity is independent of kinase activity.

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-185 and Tyr-187, which activates the enzyme. Dephosphorylated by PTPRJ at Tyr-187.

Cellular localization
Nucleus.

Images

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All lanes: Anti-ERK1 + ERK2 antibody (ab196883) at 1/500 dilution

Lane 1: NIH/3T3 (Mouse embryo fibroblast cell line) cell extract
Lane 2: NIH/3T3 (Mouse embryo fibroblast cell line) cell extract with synthesized peptide

Predicted band size: 41 kDa
Western blot - Anti-ERK1 + ERK2 antibody (ab196883)

**All lanes** : Anti-ERK1 + ERK2 antibody (ab196883) at 1/500 dilution

**Lane 1** : K562 (Human chronic myelogenous leukemia cell line from bone marrow) cell extract with synthesized peptide

**Lane 2** : K562 (Human chronic myelogenous leukemia cell line from bone marrow) cell extract

**Predicted band size**: 41 kDa

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**Please note**: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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