

Product datasheet

Anti-ERK1 + ERK2 antibody ab196883

[25 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 instructions | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. |
| Storage buffer | pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 50% Glycerol, PBS, 0.87% Sodium chloride PBS without Mg ²⁺ and Ca ²⁺ |
| 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.

| Application | Abreviews | Notes |
|-------------|-----------|---|
| WB | | 1/500 - 1/3000. Predicted molecular weight: 41 kDa. |

Target

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.

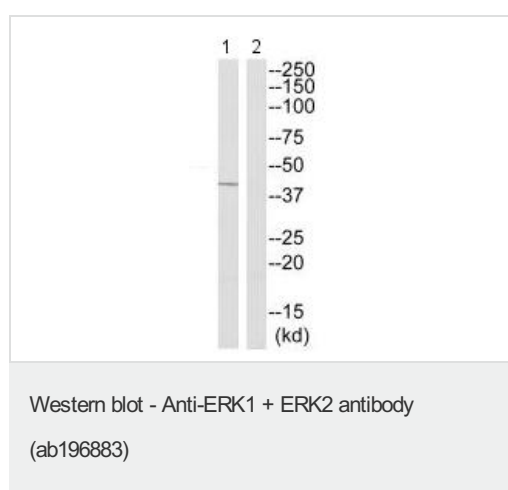
Post-translational modifications

Dually phosphorylated on Thr-185 and Tyr-187, which activates the enzyme. Dephosphorylated by PTPRJ at Tyr-187.

Cellular localization

Nucleus.

Images

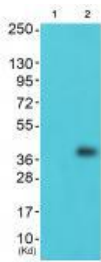


All lanes : Anti-ERK1 + ERK2 antibody (ab196883) at 1/500 dilution

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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