

Product datasheet

Anti-ERK1 + ERK2 (phospho T185 + Y187) antibody (Alexa Fluor® 488) ab200807

5 References 1 Image

Overview

Product name	Anti-ERK1 + ERK2 (phospho T185 + Y187) antibody (Alexa Fluor® 488)
Description	Rabbit polyclonal to ERK1 + ERK2 (phospho T185 + Y187) (Alexa Fluor® 488)
Host species	Rabbit
Conjugation	Alexa Fluor® 488. Ex: 495nm, Em: 519nm
Tested applications	Suitable for: ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide corresponding to Human ERK1 + ERK2. Synthetic phosphopeptide derived from the region of ERK1 that contains threonine 202 (corresponding to 185 in ERK2) and tyrosine 204 (corresponding to 187 in ERK2). Database link: P27361
Positive control	NIH3T3 cells (serum starved), treated with PDGF (50 ng/mL for 15 minutes).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Store In the Dark.
Storage buffer	pH: 7.30 Preservative: 0.05% Sodium azide Constituents: 0.2% BSA, 99% PBS PBS without Mg ²⁺ and Ca ²⁺ .
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab200807** in the following tested applications.

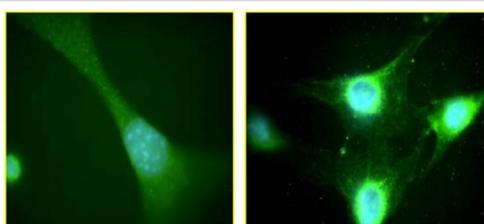
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		1/50.

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



Immunofluorescence analysis of NIH3T3 cells labeling ERK1 + ERK2 (phospho T185 + Y187) using ab200807 at 1/50 dilution. NIH3T3 cells were serum starved and either left untreated (left image) or treated with PDGF (50 ng/mL for 15 minutes) (right image).

Immunocytochemistry/ Immunofluorescence - Anti-ERK1 + ERK2 (phospho T185 + Y187) antibody (Alexa Fluor® 488) (ab200807)

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