

Product datasheet

Anti-ERK1 (phospho T202) antibody ab194776

[4 References](#) [3 Images](#)

Overview

Product name	Anti-ERK1 (phospho T202) antibody
Description	Rabbit polyclonal to ERK1 (phospho T202)
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB, ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide corresponding to Human ERK1 (phospho T202). Phospho specific peptide corresponding to residues surrounding Threonine 202 of Human ERK1. Database link: P27361
Positive control	293 cell extract, treated with PMA; Human breast carcinoma tissue; HeLa cells.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

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: 7.30 Preservative: 0.02% Sodium azide Constituents: 50% Glycerol, 49% PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab194776 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
IHC-P		1/50 - 1/100.
WB		1/500 - 1/2000. Predicted molecular weight: 43 kDa.
ICC/IF		1/100 - 1/200.

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 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.

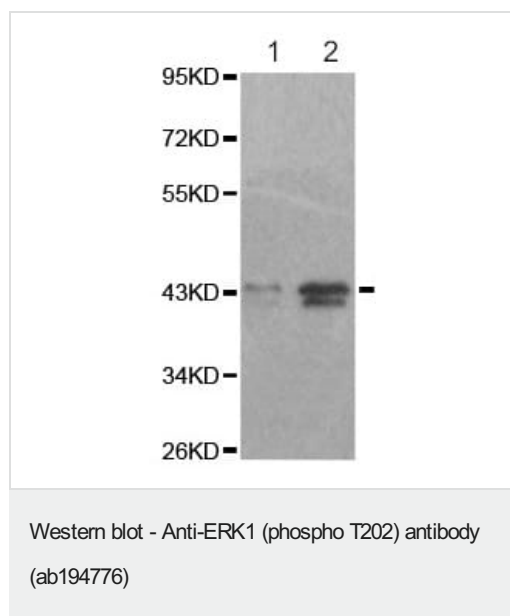
Domain

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.

Images

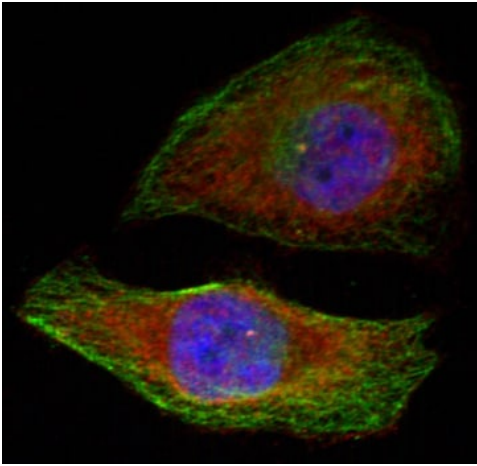


All lanes : Anti-ERK1 (phospho T202) antibody (ab194776) at 1/500 dilution

Lane 1 : 293 cell extract, untreated

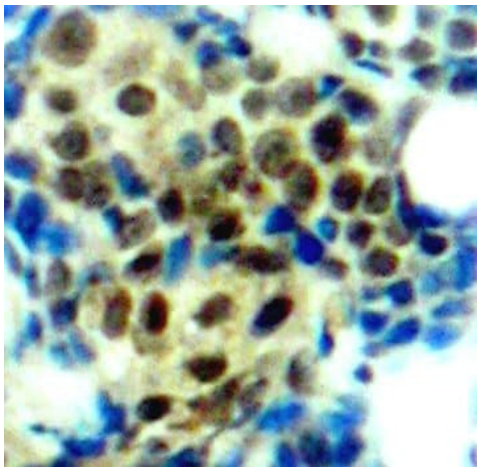
Lane 2 : 293 cell extract, treated with PMA

Predicted band size: 43 kDa



Immunofluorescent analysis of methanol-fixed HeLa cells labeling ERK1 (phospho T202) with ab194776 at 1/100 dilution.

Immunocytochemistry/ Immunofluorescence - Anti-ERK1 (phospho T202) antibody (ab194776)



Immunohistochemical analysis of paraffin-embedded Human breast carcinoma tissue labeling ERK1 (phospho T202) with ab194776 at 1/50 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ERK1 (phospho T202) antibody (ab194776)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Response to your inquiry within 24 hours
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- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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