

Product datasheet

Anti-ERK1 antibody [E32] ab73270

[1 References](#) [2 Images](#)

Overview

Product name	Anti-ERK1 antibody [E32]
Description	Mouse monoclonal [E32] to ERK1
Host species	Mouse
Specificity	Recognizes only the ERK1 protein (e.g.: from Human and mouse cells)
Tested applications	Suitable for: WB, IP
Species reactivity	Reacts with: Mouse, Human
Immunogen	Recombinant full length protein corresponding to Human ERK1. Recombinant full length human, active, ERK1 protein.
Positive control	293 and HeLa cell lysates.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.20 Preservative: 0.05% Sodium azide Constituent: 0.0268% PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	E32
Isotype	IgG1

Applications

Our [Abpromise guarantee](#) covers the use of **ab73270** in the following tested applications.

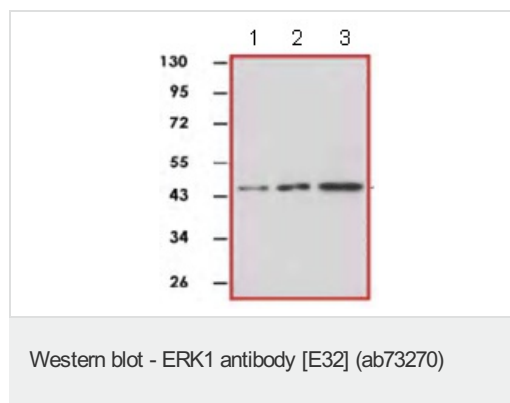
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000 - 1/10000. Detects a band of approximately 43 kDa (predicted molecular weight: 43 kDa).
IP		Use at an assay dependent dilution.

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 antibody [E32] (ab73270) at 1/1000 dilution

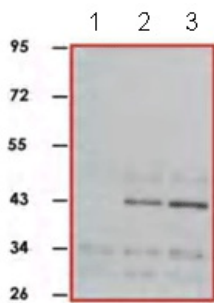
Lane 1 : 293 cell lysate at 5 µg

Lane 2 : 293 cell lysate at 10 µg

Lane 3 : 293 cell lysate at 30 µg

Predicted band size: 43 kDa

Observed band size: 43 kDa



Immunoprecipitation - Anti-ERK1 antibody [E32]
(ab73270)

Detection of ERK1 by Western Blot of Immunoprecipitate.
ab73270 staining ERK1 in HeLa whole cell lysate immunoprecipitated using 1 µl of ab73270.
Lane 1: 10 µg HeLa lysate.
Lane 2: 25 µg HeLa lysate.
Lane 3: 50 µg HeLa lysate.

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