

Datasheet for ABIN1107127
anti-ERK1/2 antibody (N-Term)



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2 Images

Overview

Quantity:	0.1 mg
Target:	ERK1/2 (MAPK1/3)
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ERK1/2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunoprecipitation (IP)

Product Details

Immunogen:	Synthetic peptide mapping at the N-terminal of the human MAPK1+3 .Remarks: Sequence is identical to the related rat sequence.
Isotype:	IgG
Cross-Reactivity (Details):	Species reactivity (tested):Human, mouse, rat
Purification:	Immunogen affinity purified

Target Details

Target:	ERK1/2 (MAPK1/3)
Alternative Name:	ERK1 / ERK2 (MAPK1/3 Products)

Target Details

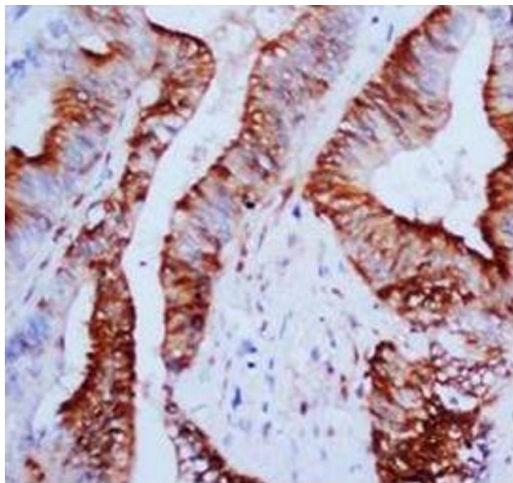
Background:	MAPK1(ERK2) shares high homology with MAPK3(ERK1). MAP kinase phosphatase as a locus of flexibility in a mitogen-activated protein kinase signaling network. Mitogen-activated protein (MAP) kinases [also known as Erks] have been established to function as important mediators of signal transduction by growth factor receptors. ERK1/ERK2-dependent activation of endogenous ribosomal transcription, while inactivation of ERK1/ERK2 causes an equally immediate reversion to the basal transcription level. ERK1/ERK2 was found to phosphorylate the architectural transcription factor UBF at amino acids 117 and 201 within HMG boxes 1 and 2, preventing their interaction with DNA. Mutation of these sites inhibited transcription activation and abrogated the transcriptional response to ERK1/ERK2.Synonyms: ERK-1/ERK-2, Extracellular signal-regulated kinase, Insulin-stimulated MAP2 kinase, MAPK1/MAPK2, Mitogen-activated protein kinase, P42/P44-MAPK
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Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

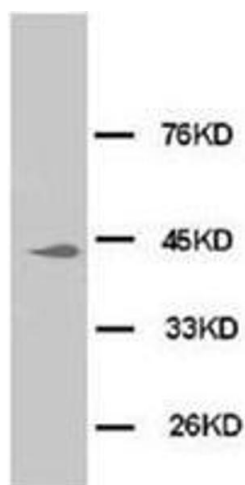
Handling

Reconstitution:	0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Buffer:	5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Thimerosal, 0.05 mg NaN ₃
Preservative:	Sodium azide, Thimerosal (Merthiolate)
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer.



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemical analysis of paraffin embedded Mammary cancer sections, staining MAPK1-3 in cytoplasm and nucleus, DAB chromogenic reaction



Western Blotting

Image 2. Western blot analysis of Hela cell lysis using MAPK1-3 antibody