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AP23276PU-N Polyclonal Antibody to ERK1 / ERK2 (N-term) - Aff - Purified

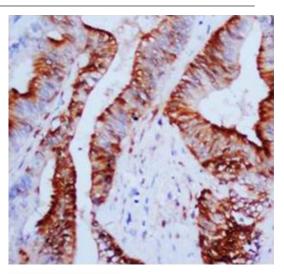
Alternate names:	ERK-1/ERK-2, Extracellular signal-regulated kinase, Insulin-stimulated MAP2 kinase, MAPK1/MAPK2, Mitogen-activated protein kinase, P42/P44-MAPK
Quantity:	0.1 mg
Background:	MAPK1(ERK2) shares high homology with MAPK3(ERK1). MAP kinase phosphatase as a locus of flexibility in a mitogen-activated 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.
Host / Isotype:	Rabbit / IgG
Immunogen:	Synthetic peptide mapping at the N-terminal of the human MAPK1+3 Remarks: Sequence is identical to the related rat sequence.
Format:	State: Lyophilized Ig fraction Purification: Immunogen affinity purified Buffer System: 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3 Reconstitution: 0.2ml of distilled water will yield a concentration of 500μg/ml.
Applications:	Western blot: At 0.5-1µg/ml with the appropriate system to detect MAPK1/3 in cells and tissues. Immunohistochemistry on paraffin sections: At 1-2µg/ml to detect MAPK1/3 in formalin fixed and paraffin embedded tissues. Boiling the sections is required. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody detects ERK1 / ERK2 at N-term. No cross reactivity with other proteins.
Species Reactivity:	Tested: Human, mouse, rat
Storage:	Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

For research and in vitro use only. Not for diagnostic or therapeutic work. Material Safety Datasheets are available at www.acris-antibodies.com or on request.

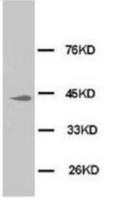
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Pictures:

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



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



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