

## Product datasheet for **AP23276PU-N**

### ERK1 / ERK2 (N-term) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, IP, WB
Recommended Dilution:	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.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide mapping at the N-terminal of the human MAPK1+3
Specificity:	This antibody detects ERK1 / ERK2 at N-term. No cross reactivity with other proteins.
Formulation:	5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> State: Aff - Purified State: Lyophilized Ig fraction
Reconstitution Method:	0.2ml of distilled water will yield a concentration of 500µg/ml.
Purification:	Immunogen affinity purified
Conjugation:	Unconjugated
Storage:	Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



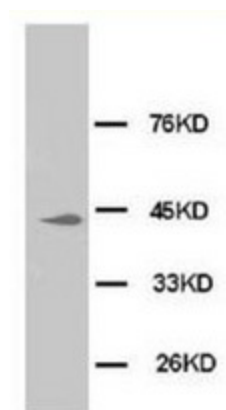
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**Background:**

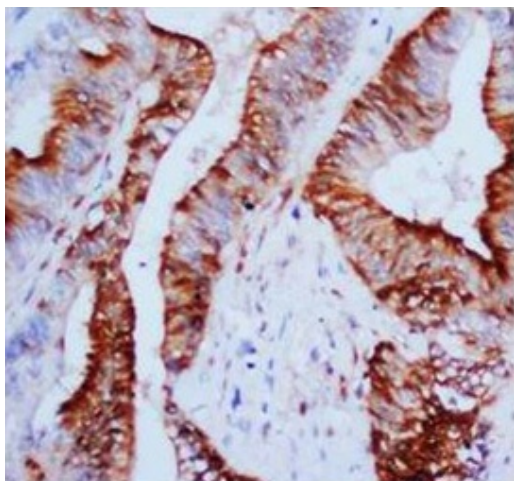
MAPK1(ERK2) shares high homology with MAPK3(ERK1). MAP kinase phosphatase as a locus of flexibility in a mitogen-activated protein kinase signaling network. Mitogen-activated protein (MAP) kinases [also known as Erks] have been established to function as important mediators of signal transduction by 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, MAPK1/MAPK2, P42/P44-MAPK

**Product images:**


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



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