

Product datasheet for **AP02498PU-N**

ERK1 (MAPK3) pThr202 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Western Blot: 1/500-1/1000. Incubate membrane with diluted antibody in 5% nonfat milk, 1X TBS, 0,1% Tween-20 at 4°C with gentle shaking, overnight. Immunofluorescence: 1/100-1/200. Immunohistochemistry on Paraffin Sections: 1/50-1/100.
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Syntetic phosphopeptide derived from Human p44/42 MAP Kinase around the phosphorylation site of Threonine 202 (F-L-Tp-E-Y).
Specificity:	This antibody detects endogenous levels of p44/42 MAP Kinase only when phosphorylated at Threonine 202.
Formulation:	PBS (without Mg ²⁺ and Ca ²⁺), pH 7.4 containing 150 mM NaCl and 50% Glycerol State: Aff - Purified State: Liquid purified IgG fraction Preservative: 0.02% Sodium Azide
Concentration:	lot specific
Purification:	Affinity Chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
Conjugation:	Unconjugated
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	42, 44 kDa
Gene Name:	mitogen-activated protein kinase 3



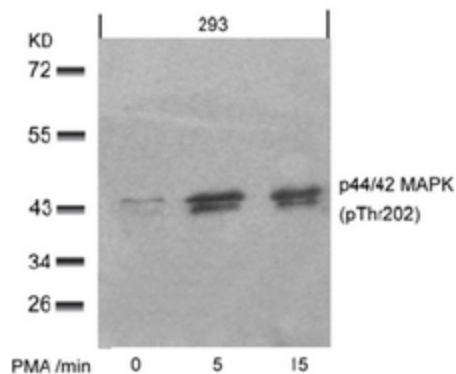
[View online »](#)

Database Link: [Entrez Gene 5595 Human P27361](#)

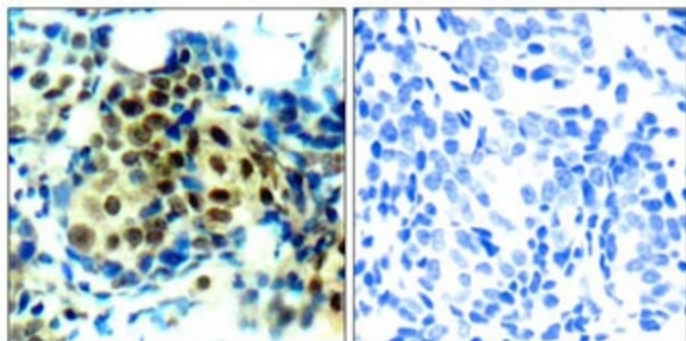
Background: Both p44 and p42 MAP kinases (Erk1 and Erk2) function in a protein kinase cascade that plays a critical role in the regulation of cell growth and differentiation. Activation of MAP kinases occurs through phosphorylation of threonine and tyrosine (202 and 204 of human MAP kinase [Erk1] or 183 and 185 of rat Erk2) at the sequence T*EY* by a single upstream MAP kinase kinase (MEK). Both kinases are known to weakly autophosphorylate on tyrosine.

Synonyms: ERK-1/ERK-2, MAPK1/MAPK2, P42/P44-MAPK

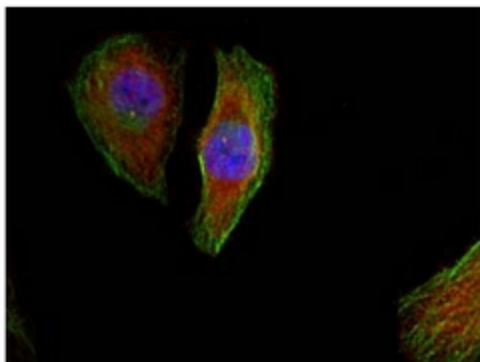
Product images:



Western Blot analysis of extracts from 293 cells untreated or treated with PMA for the indicated times, using p44/42 MAP Kinase antibody (pThr202)



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using p44/42 MAP Kinase antibody (pThr202) (left) or the same antibody preincubated with Blocking peptide (right).



Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic, nuclear staining using p44/42 MAP Kinase antibody (pThr202)