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Product datasheet for TA392776M

ERK2 (MAPK1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:500~1:1000 IHC: 1:50~1:200
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 140-190 of Human ERK 2.
Specificity:	ERK 2 (R172) polyclonal antibody detects endogenous levels of ERK 2 protein. This antibody also recognizes ERK1 protein.
Formulation:	Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2
Concentration:	1mg/ml
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Stability:	1 year
Predicted Protein Size:	~ 42 kDa
Gene Name:	mitogen-activated protein kinase 1
Database Link:	Entrez Gene 5594 Human P28482

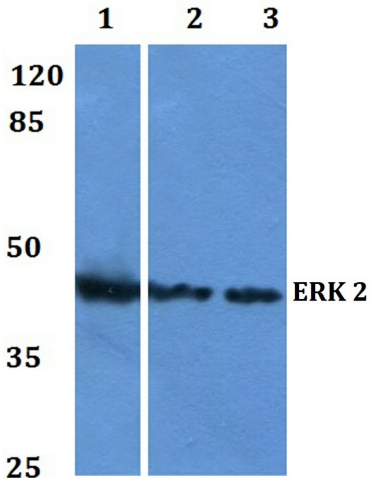
View online »

Background: Mitogen-activated protein kinase (MAPK) signaling pathways involve two closely related MAP kinases, known as extracellular-signal-related kinase 1 (ERK 1, p44) and 2 (ERK 2, p42). Growth factors, steroid hormones, G protein-coupled receptor ligands, and neurotransmitters can initiate MAPK signaling pathways. Activation of ERK1 and ERK2 requires phosphorylation by upstream kinases such as MAP kinase kinase (MEK), MEK kinase and Raf-1. ERK1 and ERK2 phosphorylation can occur at specific tyrosine and threonine sites mapping within consensus motifs that include the Threonine-Glutamate-Tyrosine motif. ERK activation leads to dimerization with other ERKs and subsequent localization to the nucleus. Active ERK dimers phosphorylate serine and threonine residues on nuclear proteins and influence a host of responses that include proliferation, differentiation, transcription regulation and development.

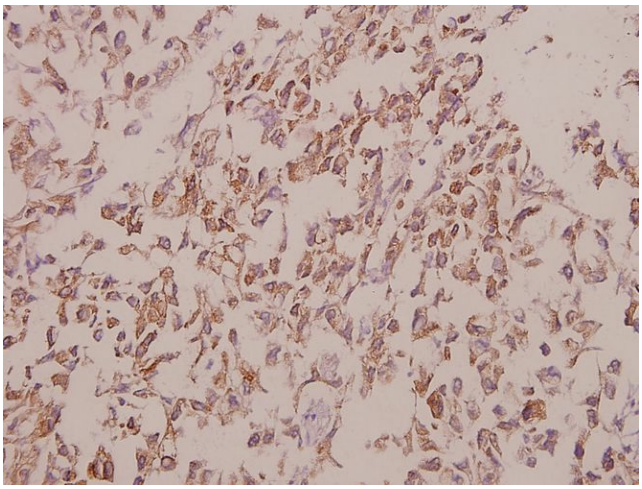
Synonyms: ERK-1; ERK-2; ERK1; ERK2; ERT1; ERT2; Extracellular signal-regulated kinase 1; Extracellular signal-regulated kinase 2; Insulin-stimulated MAP2 kinase; MAPK1; MAPK 1; MAPK 2; MAPK 3; MAPK3; MAP kinase 1; MAP kinase 2; MAP kinase 3; MAP kinase isoform p42; MAP kinase isoform p44; Microtubule-associated protein 2 kinase; Mitogen-activated protein kinase 1; Mitogen-activated protein kinase 2; Mitogen-activated protein kinase 3; p42-MAPK; p44-ERK1; p44-MAPK; PRKM1; PRKM2; PRKM3

Note: For research use only, not for use in diagnostic procedure.

Product images:



Western blot (WB) analysis of ERK 1/2 (R172) polyclonal antibody at 1:1000 dillution Lane1:Hela whole cell lysate(40µg) Lane2:NIH-3T3 whole cell lysate(40µg) Lane3:H9C2 whole cell lysate(40µg)



Immunohistochemistry (IHC) analyzes of ERK 1/2 (R172) pAb in paraffin-embedded human colorectal carcinoma tissue at 1:50.