



ERK 8 rabbit pAb

Cat No.:ES5242

For research use only

Overview

Product Name	ERK 8 rabbit pAb
Host species	Rabbit
Applications	IHC;IF;ELISA
Species Cross-Reactivity	Human;Rat;Mouse;
Recommended dilutions	Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/5000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human MAPK15. AA range:361-410
Specificity	ERK 8 Polyclonal Antibody detects endogenous levels of ERK 8 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Mitogen-activated protein kinase 15
Gene Name	MAPK15
Cellular localization	Cytoplasm, cytoskeleton, cilium basal body . Cell junction, tight junction . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole . Cytoplasmic vesicle, autophagosome . Golgi apparatus . Nucleus . Cytoplasm . Cytoplasm, cytoskelet
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	
Human Gene ID	225689
Human Swiss-Prot Number	Q8TD08
Alternative Names	MAPK15; ERK7; ERK8; Mitogen-activated protein kinase 15; MAP kinase 15; MAPK 15; Extracellular





Background

signal-regulated kinase 7; ERK-7; Extracellular signal-regulated kinase 8; ERK-8
catalytic activity:ATP + a protein = ADP + a phosphoprotein.,domain:The N-terminal region (1-20) is the minimal region necessary for ubiquitination and further proteosomal degradation.,domain:The TXY motif contains the threonine and tyrosine residues whose phosphorylation activates the MAP kinases.,enzyme regulation:Activated by threonine and tyrosine phosphorylation. Inhibited by dual specificity phosphatases, such as DUSP1.,function:In vitro, phosphorylates MBP.,PTM:Dually phosphorylated on Thr-175 and Tyr-177, which activates the enzyme. Autophosphorylated on threonine and tyrosine residues in vitro.,PTM:Ubiquitinated. Ubiquitination may allow its tight kinase activity regulation and rapid turnover. May be ubiquitinated by a SCF E3 ligase.,similarity:Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MAP kinase subfamily.,similarity:Contains 1 protein kinase domain.,subunit:Interacts with CSK/c-Src, ABL1, RET and TGFB1I1.,tissue specificity:Widely expressed with a maximal expression in lung and kidney.,

Immunohistochemistry analysis of paraffin-embedded human lung carcinoma, using MAPK15 Antibody. The picture on the right is blocked with the synthesized peptide.

