



ERK 8 Monoclonal Antibody

Catalog No	YP-mAb-14742
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	MAPK15
Immunogen	The antiserum was produced against synthesized peptide derived from human MAPK15. AA range:141-190
Specificity	ERK 8 Monoclonal Antibody detects endogenous levels of ERK 8 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	ERK-7;ERK-8;ERK7;ERK8;Extracellular regulated kinase 8 delta;Extracellular signal regulated kinase 8;Extracellular signal-regulated kinase 7;Extracellular signal-regulated kinase 8;MAP kinase 15;MAPK 15;Mapk15;Mitogen activated protein kinase 15;Mitogen-activated protein kinase 15;MK15_HUMAN
Observed Band	60kD
Calculated Molecular Weight	60kD
Cell Pathway	Cytoplasm, cytoskeleton, cilium basal body . Cell junction, tight junction . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole . Cytoplasmic vesicle, autophagosome . Golgi apparatus . Nucleus . Cytoplasm . Cytoplasm, cytoskeleton, spindle . Co-localizes to the cytoplasm only in presence of ESRRA (PubMed:21190936). Translocates to the nucleus upon activation (PubMed:20638370). At prometaphase I, metaphase I (MI), anaphase I, telophase I, and metaphase II (MII) stages, is stably detected at the spindle (By similarity). .
Tissue Specificity	Widely expressed with a maximal expression in lung and kidney.



Function

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 kinas

Background

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matters needing attention

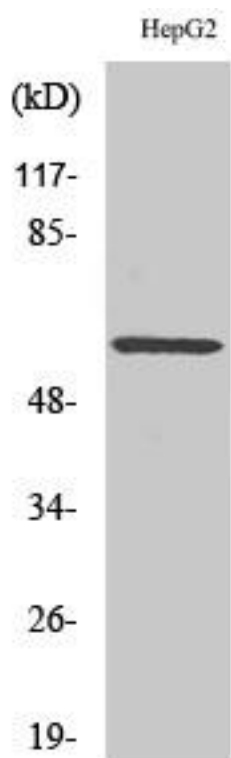
Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Products Images



Western Blot analysis of various cells using ERK 8 Monoclonal Antibody