

MK12 Polyclonal Antibody

Catalog No: YN1614

Reactivity: Human; Mouse; Rat

Applications: WB;ELISA

Target: MK12

Fields: >>Endocrine resistance;>>MAPK signaling pathway;>>Rap1 signaling

pathway;>>FoxO signaling pathway;>>Sphingolipid signaling pathway;>>Oocyte

meiosis;>>Cellular senescence;>>Adrenergic signaling in cardiomyocytes;>>VEGF signaling pathway;>>Osteoclast

differentiation;>>Signaling pathways regulating pluripotency of stem

cells;>>Platelet activation;>>Neutrophil extracellular trap formation;>>Toll-like receptor signaling pathway;>>NOD-like receptor signaling pathway;>>RIG-I-like receptor signaling pathway;>>C-type lectin receptor signaling pathway;>>IL-17

signaling pathway;>>Th1 and Th2 cell differentiation;>>Th17 cell

differentiation;>>T cell receptor signaling pathway;>>Fc epsilon RI signaling

pathway;>>TNF signaling pathway;>>Leukocyte transendothelial

migration;>>Thermogenesis;>>Neurotrophin signaling pathway;>>Retrograde endocannabinoid signaling;>>Dopaminergic synapse;>>Inflammatory mediator regulation of TRP channels;>>GnRH signaling pathway;>>Progesterone-

mediated oocyte maturation;>

Gene Name: MAPK12 ERK6 SAPK3

Protein Name: Mitogen-activated protein kinase 12 (MAP kinase 12) (MAPK 12) (EC 2.7.11.24)

(Extracellular signal-regulated kinase 6) (ERK-6) (Mitogen-activated protein

kinase p38 gamma) (MAP kinase p38 gamma) (Stre

Human Gene Id: 6300

Human Swiss Prot P53778

No:

Mouse Swiss Prot 008911

No:

Rat Swiss Prot No: Q63538

Immunogen: Synthesized peptide derived from human protein. at AA range: 70-150

1/3



Specificity: MK12 Polyclonal Antibody detects endogenous levels of protein.

Formulation : Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution: WB 1:500-2000 ELISA 1:5000-20000

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 40kD

Cell Pathway: MAPK_ERK_Growth;MAPK_G_Protein;Oocyte meiosis;VEGF;Toll_Like;NOD-

like receptor;RIG-I-like receptor;T Cell Receptor;Fc epsilon RI;Leukocyte

transendothelial migration; Neurotrophin; GnRH; Progesterone-med

Background: Activation of members of the mitogen-activated protein kinase family is a major

mechanism for transduction of extracellular signals. Stress-activated protein kinases are one subclass of MAP kinases. The protein encoded by this gene functions as a signal transducer during differentiation of myoblasts to myotubes.

[provided by RefSeq, Jul 2008],

Function: catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Binds 2

magnesium ions.,domain:The TXY motif contains the threonine and tyrosine

residues whose phosphorylation activates the MAP kinases.,enzyme

regulation: Activated by phosphorylation on threonine and

tyrosine.,function:Responds to activation by environmental stress and proinflammatory cytokines by phosphorylating downstream targets. Plays a role in myoblast differentiation and also in the down-regulation of cyclin D1 in response to hypoxia in adrenal cells suggesting MAPK12 may inhibit cell proliferation while promoting differentiation.,PTM:Dually phosphorylated on Thr-183 and Tyr-185, which activates the enzyme.,similarity:Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MAP kinase subfamily.,similarity:Contains 1

protein kinase domain., subcellular location: Mitochondrial when associat

Subcellular Location:

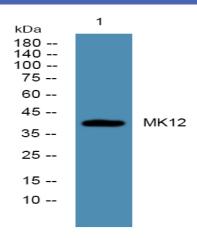
Cytoplasm. Nucleus. Mitochondrion. Mitochondrial when associated with SH3BP5. In skeletal muscle colocalizes with SNTA1 at the neuromuscular

junction and throughout the sarcolemma (By similarity). .

Expression: Highly expressed in skeletal muscle and heart.



Products Images



Western blot analysis of lysates from DU145 cells, primary antibody was diluted at 1:1000, $4\,^{\circ}\text{over}$ night