

## MK12 Polyclonal Antibody

<b>Catalog No :</b>	YN1614
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;ELISA
<b>Target :</b>	MK12
<b>Fields :</b>	>>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;>
<b>Gene Name :</b>	MAPK12 ERK6 SAPK3
<b>Protein Name :</b>	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
<b>Human Gene Id :</b>	6300
<b>Human Swiss Prot No :</b>	P53778
<b>Mouse Swiss Prot No :</b>	O08911
<b>Rat Swiss Prot No :</b>	Q63538
<b>Immunogen :</b>	Synthesized peptide derived from human protein . at AA range: 70-150

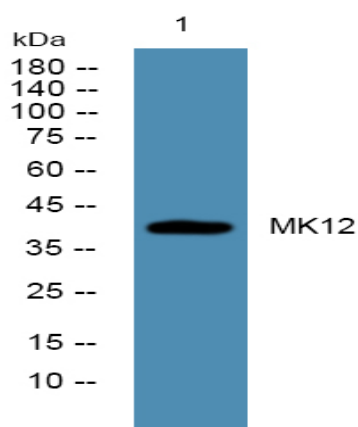
<b>Specificity :</b>	<u>MK12 Polyclonal Antibody detects endogenous levels of protein.</u>
<b>Formulation :</b>	<u>Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.</u>
<b>Source :</b>	<u>Polyclonal, Rabbit,IgG</u>
<b>Dilution :</b>	<u>WB 1:500-2000 ELISA 1:5000-20000</u>
<b>Purification :</b>	<u>The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.</u>
<b>Concentration :</b>	<u>1 mg/ml</u>
<b>Storage Stability :</b>	<u>-15°C to -25°C/1 year(Do not lower than -25°C)</u>
<b>Observed Band :</b>	<u>40kD</u>
<b>Cell Pathway :</b>	<u>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</u>
<b>Background :</b>	<u>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],</u>
<b>Function :</b>	<u>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 pro-inflammatory 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</u>
<b>Subcellular Location :</b>	<u>Cytoplasm. Nucleus. Mitochondrion. Mitochondrial when associated with SH3BP5. In skeletal muscle colocalizes with SNTA1 at the neuromuscular junction and throughout the sarcolemma (By similarity). .</u>
<b>Expression :</b>	<u>Highly expressed in skeletal muscle and heart.</u>

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<b>Sort :</b>	<u>20136</u>
<b>No4 :</b>	<u>1</u>
<b>Host :</b>	<u>Rabbit</u>
<b>Modifications :</b>	<u>Unmodified</u>

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## Products Images



Western blot analysis of lysates from DU145 cells, primary antibody was diluted at 1:1000, 4° over night