

## M3K12 Polyclonal Antibody

<b>Catalog No :</b>	YN1593
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;ELISA
<b>Target :</b>	M3K12
<b>Fields :</b>	>>MAPK signaling pathway
<b>Gene Name :</b>	MAP3K12 ZPK
<b>Protein Name :</b>	Mitogen-activated protein kinase kinase kinase 12 (EC 2.7.11.25) (Dual leucine zipper bearing kinase) (DLK) (Leucine-zipper protein kinase) (ZPK) (MAPK-upstream kinase) (MUK) (Mixed lineage kinase)
<b>Human Gene Id :</b>	7786
<b>Human Swiss Prot No :</b>	Q12852
<b>Mouse Swiss Prot No :</b>	Q60700
<b>Rat Swiss Prot No :</b>	Q63796
<b>Immunogen :</b>	Synthesized peptide derived from human protein . at AA range: 730-810
<b>Specificity :</b>	M3K12 Polyclonal Antibody detects endogenous levels of protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500-2000 ELISA 1:5000-20000
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml

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

**Observed Band :** 94kD

**Cell Pathway :** MAPK\_ERK\_Growth;MAPK\_G\_Protein;

**Background :** This gene encodes a member of the serine/threonine protein kinase family. This kinase contains a leucine-zipper domain and is predominately expressed in neuronal cells. The phosphorylation state of this kinase in synaptic terminals was shown to be regulated by membrane depolarization via calcineurin. This kinase forms heterodimers with leucine zipper containing transcription factors, such as cAMP responsive element binding protein (CREB) and MYC, and thus may play a regulatory role in PKA or retinoic acid induced neuronal differentiation. Alternatively spliced transcript variants encoding different proteins have been described.[provided by RefSeq, Jul 2010],

**Function :** catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Magnesium.,domain:Interacts with MBIP through the leucine-zipper motif.,function:May be an activator of the JNK/SAPK pathway. Phosphorylates beta-casein, histone 1 and myelin basic protein in vitro.,PTM:Autophosphorylated on Ser/Thr. Phosphorylated in cytosol under basal conditions and dephosphorylated when membrane-associated.,similarity:Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. MAP kinase kinase kinase subfamily.,similarity:Contains 1 protein kinase domain.,subunit:Interacts with MBIP.,tissue specificity:Highly expressed in brain and kidney.,

**Subcellular Location :** Cytoplasm . Cell membrane . Behaves essentially as an integral membrane protein. .

**Expression :** Highly expressed in brain and kidney.

## Products Images