

## JNK1 mouse mAb

<b>Catalog No :</b>	YM1403
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;IF
<b>Target :</b>	JNK1
<b>Fields :</b>	>>Endocrine resistance;>>MAPK signaling pathway;>>ErbB signaling pathway;>>Ras signaling pathway;>>cAMP signaling pathway;>>FoxO signaling pathway;>>Sphingolipid signaling pathway;>>Mitophagy - animal;>>Autophagy - animal;>>Protein processing in endoplasmic reticulum;>>Apoptosis;>>Apoptosis - multiple species;>>Necroptosis;>>Wnt signaling pathway;>>Osteoclast differentiation;>>Focal adhesion;>>Tight junction;>>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;>>Neurotrophin signaling pathway;>>Retrograde endocannabinoid signaling;>>Dopaminergic synapse;>>Inflammatory mediator regulation of TRP channels;>>Insulin signaling pathway;>>GnRH signaling pathway;>>Progesterone-mediated oocyte maturation;>>Pr
<b>Gene Name :</b>	mapk8
<b>Human Gene Id :</b>	5599
<b>Human Swiss Prot No :</b>	P45983
<b>Mouse Swiss Prot No :</b>	Q91Y86
<b>Immunogen :</b>	Purified recombinant human JNK1 protein fragments expressed in E.coli.
<b>Specificity :</b>	This antibody detects endogenous levels of JNK1 and does not cross-react with related proteins.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Monoclonal, Mouse

**Dilution :** wb dilution 1:1000 icc dilution 1:100. IF 1:50-200

**Purification :** The antibody was affinity-purified from mouse ascites 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 :** 46,54kD

**Cell Pathway :** MAPK\_ERK\_Growth;MAPK\_G\_Protein;ErbB\_HER;WNT;WNT-T CELLFocal adhesion;Toll\_Like;NOD-like receptor;RIG-I-like receptor;Fc epsilon RI;Neurotrophin;Insulin\_Receptor;GnRH;Progesterone-mediated oocyte matur

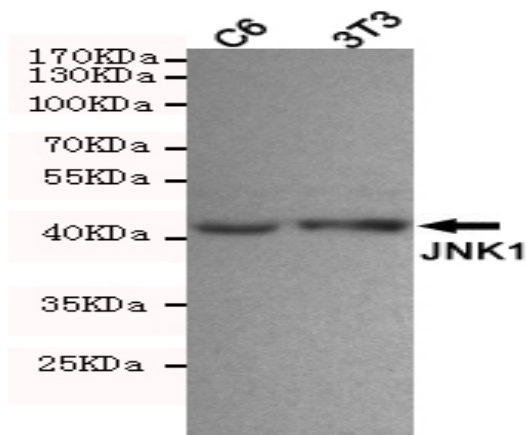
**Background :** The protein encoded by this gene is a member of the MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. This kinase is activated by various cell stimuli, and targets specific transcription factors, and thus mediates immediate-early gene expression in response to cell stimuli. The activation of this kinase by tumor-necrosis factor alpha (TNF-alpha) is found to be required for TNF-alpha induced apoptosis. This kinase is also involved in UV radiation induced apoptosis, which is thought to be related to cytochrom c-mediated cell death pathway. Studies of the mouse counterpart of this gene suggested that this kinase play a key role in T cell proliferation, apoptosis and differentiation. Several alternatively spl

**Function :** catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Magnesium.,domain:The TXY motif contains the threonine and tyrosine residues whose phosphorylation activates the MAP kinases.,enzyme regulation:Activated by threonine and tyrosine phosphorylation by either of two dual specificity kinases, MAP2K4 and MAP2K7. Inhibited by dual specificity phosphatases, such as DUSP1.,function:JNK1 isoforms display different binding patterns: beta-1 preferentially binds to c-Jun, whereas alpha-1, alpha-2, and beta-2 have a similar low level of binding to both c-Jun or ATF2. However, there is no correlation between binding and phosphorylation, which is achieved at about the same efficiency by all isoforms.,function:Responds to activation by environmental stress and pro-inflammatory cytokines by phosphorylating a number of transcription factors, primarily components of AP-1 such as JUN, JDP

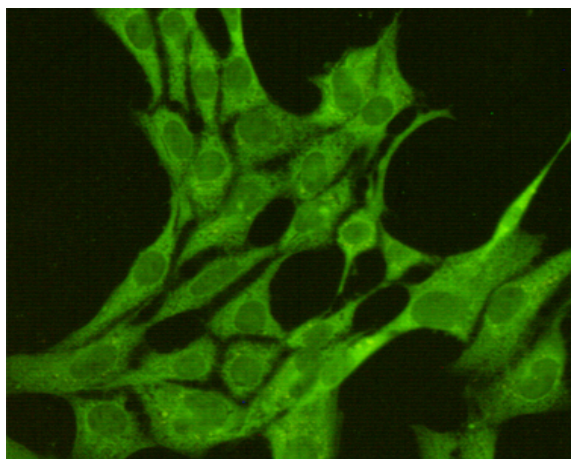
**Subcellular Location :** Cytoplasm . Nucleus . Cell junction, synapse . In the cortical neurons, predominantly cytoplasmic and associated with the Golgi apparatus and endosomal fraction. Increased neuronal activity increases phosphorylated form at synapses (By similarity). Colocalizes with POU5F1 in the nucleus. .

**Expression :** Brain, Epithelium, Fetal brain, Lung, Pooled, Testis,

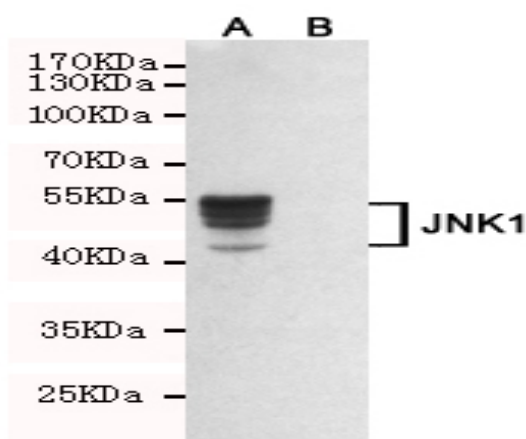
## Products Images



Western blot detection of JNK1 in C6 and 3T3 cell lysates using JNK1 mouse mAb (1:1000 diluted). Predicted band size: 46,54KDa. Observed band size: 46KDa.



Immunofluorescent analysis of 3T3 cells fixed by anhydrous methanol for 2 h at -20°C and using anti-JNK1 mouse mAb (dilution 1:100).



Western blot detection of JNK1 in CHO-K1 cell lysate (B) and CHO-K1 transfected by JNK1-fragment fusion protein (A) cell lysate using JNK1 mouse mAb (1:2000 diluted). Predicted band size: 46,54KDa. Observed band size: 46,54KDa.