

## JNK3 Monoclonal Antibody

<b>Catalog No :</b>	YM0390
<b>Reactivity :</b>	Human;Mouse
<b>Applications :</b>	WB;IF;ELISA
<b>Target :</b>	JNK3
<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>	MAPK10
<b>Protein Name :</b>	Mitogen-activated protein kinase 10
<b>Human Gene Id :</b>	5602
<b>Human Swiss Prot No :</b>	P53779
<b>Mouse Swiss Prot No :</b>	Q61831
<b>Immunogen :</b>	Purified recombinant fragment of human JNK3 (aa28-233) expressed in E. Coli.
<b>Specificity :</b>	JNK3 Monoclonal Antibody detects endogenous levels of JNK3 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

<b>Source :</b>	Monoclonal, Mouse
<b>Dilution :</b>	WB 1:500 - 1:2000. IF 1:200 - 1:1000. ELISA: 1:10000. Not yet tested in other applications.
<b>Purification :</b>	Affinity purification
<b>Storage Stability :</b>	-15 °C to -25 °C/1 year(Do not lower than -25 °C)
<b>Molecularweight :</b>	53kD
<b>Cell Pathway :</b>	Toll_Like; Stem cell pathway; Insulin Receptor; MAPK_ERK_Growth;MAPK_G_Protein; ErbB/HER; SAPK_JNK; WNT;WNT-T CELL;β-Catenin; Cell Growth
<b>P References :</b>	<ol style="list-style-type: none"><li>1. Blood. 2002 Oct 1;100(7):2546-53.</li><li>2. J Leukoc Biol. 2003 May;73(5):682.</li><li>3. Exp Neurol. 2004 Aug;188(2):246.</li></ol>
<b>Background :</b>	<p>The protein encoded by this gene is a member of the MAP kinase family. MAP kinases act as integration points 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 specifically expressed in a subset of neurons in the nervous system and is activated by threonine and tyrosine phosphorylation. Targeted deletion of this gene in mice suggests that it may have a role in stress-induced neuronal apoptosis. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. A recent study provided evidence for translational readthrough in this gene and expression of an additional C-terminally extended isoform via the use of an alternative in-frame translation termination codon. [provided by RefSeq, Dec 2015],</p>
<b>Function :</b>	<p>alternative products:A similar low level of binding to substrates is observed for isoform alpha-1 and isoform alpha-2. However, there is no correlation between binding and phosphorylation, which is achieved about at the same efficiency by all isoforms,catalytic activity:ATP + a protein = ADP + a phosphoprotein.,caution:The sequence shown here is derived from an Ensembl automatic analysis pipeline and should be considered as preliminary data.,cofactor:Magnesium.,disease:A chromosomal rearrangement involving MAPK10 is a cause of epileptic encephalopathy Lennox-Gastaut type [MIM:606369]. Translocation t(Y;4)(q11.2;q21) which causes MAPK10 truncation. Epileptic encephalopathies of the Lennox-Gastaut group are childhood epileptic disorders characterized by severe psychomotor delay and seizures.,domain:The TXY motif contains the threonine and tyrosine residues whose phosphorylation activates t</p>
<b>Subcellular Location :</b>	Cytoplasm . Membrane ; Lipid-anchor . Nucleus . Mitochondrion . Palmitoylation regulates MAPK10 trafficking to cytoskeleton. Recruited to the mitochondria in

the presence of SARM1 (By similarity). .

**Expression :** Specific to a subset of neurons in the nervous system. Present in the hippocampus and areas, cerebellum, striatum, brain stem, and weakly in the spinal cord. Very weak expression in testis and kidney.

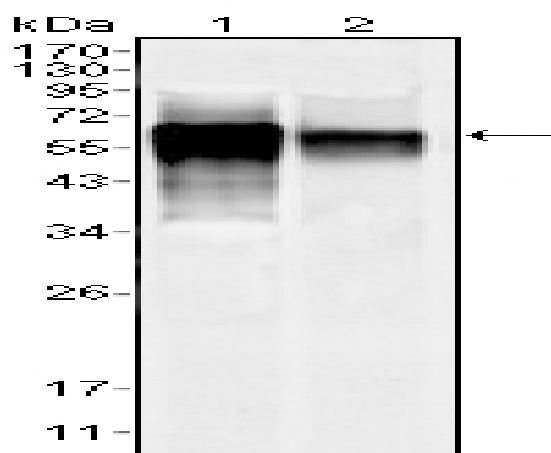
**Sort :** 8807

**No4 :** 1

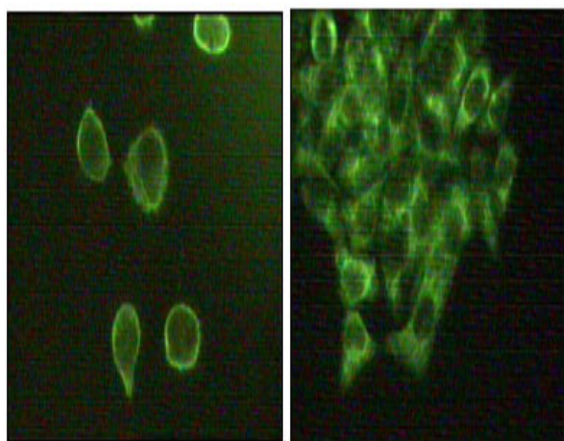
**Host :** Mouse

**Modifications :** Unmodified

## Products Images



Western Blot analysis using JNK3 Monoclonal Antibody against NIH/3T3 (1) and SKN-SH (2) cell lysate.



Immunofluorescence staining of methanol-fixed A431 (left) and Hela (right) cells showing cytoplasmic and membrane localization using JNK3 Monoclonal Antibody.