

## JNK1/2/3 Polyclonal Antibody

Catalog No: YT2440

**Reactivity:** Human; Mouse; Rat; Chicken (tested by our customer ?; Fish; Pig

**Applications:** WB;IHC;IF;ELISA

Target: JNK1/2/3

**Fields:** >>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

Gene Name: MAPK8/9/10

**Protein Name:** Mitogen-activated protein kinase 8/9/10

**Human Gene Id:** 5599/5601/5602

Human Swiss Prot P4

No:

P45983/P45984/P53779

Mouse Gene Id: 26419/26420

**Rat Gene Id:** 116554/50658/25272

Rat Swiss Prot No: P49185/P49186/P49187

**Immunogen:** The antiserum was produced against synthesized peptide derived from human

SAPK/JNK. AA range:166-215



**Specificity:** JNK1/2/3 Polyclonal Antibody detects endogenous levels of JNK1/2/3 protein.

**Formulation :** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

**Dilution:** WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:10000. Not

yet tested in other applications.

**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: 46kD,54kD

Cell Pathway: Toll\_Like; Cell Growth; Stem cell pathway; Insulin Receptor;

MAPK ERK Growth; MAPK G Protein; ErbB/HER; B Cell Receptor;

SAPK JNK; WNT; WNT-T CELL; β-Catenin

**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

activation of this kinase by tumor-necrosis factor alpha (TNF-alpha) is found to 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,

**Tag:** orthogonal,hot

Sort:

**No1**: Sc-571

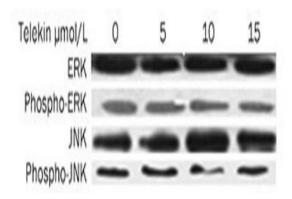
**No3:** ab179461

No4:

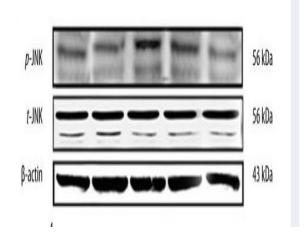
Host: Rabbit

Modifications: Unmodified

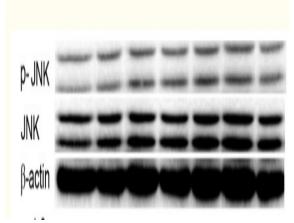
## **Products Images**



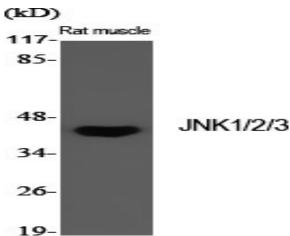
Li, Lin, et al. "Telekin suppresses human hepatocellular carcinoma cells in vitro by inducing G 2/M phase arrest via the p38 MAPK signaling pathway." Acta Pharmacologica Sinica 35.10 (2014): 1311.



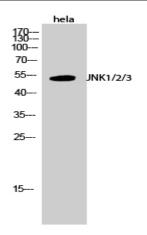
Fan, Dong-xiao, et al. "17β-Estradiol on the Expression of G-Protein Coupled Estrogen Receptor (GPER/GPR30) Mitophagy, and the PI3K/Akt Signaling Pathway in ATDC5 Chondrocytes In Vitro." Medical science monitor: international medical journal of experimental and clinical research 24 (2018): 1936.



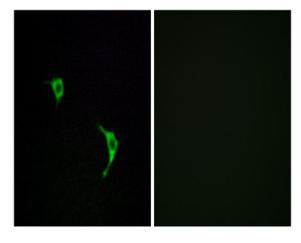
Xu, Yini, et al. "Inhibitory effects of oxymatrine on TGF-β1-induced proliferation and abnormal differentiation in rat cardiac fibroblasts via the p38MAPK and ERK1/2 signaling pathways." Molecular medicine reports 16.4 (2017): 5354-5362.



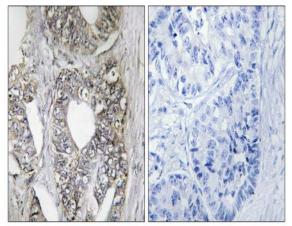
Western Blot analysis of various cells using JNK1/2/3 Polyclonal Antibody diluted at 1:1000



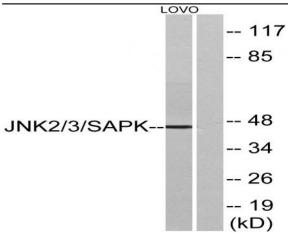
Western Blot analysis of hela cells using JNK1/2/3 Polyclonal Antibody diluted at 1:1000



Immunofluorescence analysis of LOVO cells, using SAPK/JNK Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using SAPK/JNK Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from LOVO cells, using SAPK/JNK Antibody. The lane on the right is blocked with the synthesized peptide.