



# JNK1/2/3 (phospho Thr183/Y185) Polyclonal Antibody

|                           |                                                                                                                                                                                                                                                                                                    |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog No</b>         | BYab-30356                                                                                                                                                                                                                                                                                         |
| <b>Isotype</b>            | IgG                                                                                                                                                                                                                                                                                                |
| <b>Reactivity</b>         | Human;Mouse;Rat;Chicken/pig/fish(tested by our customer)                                                                                                                                                                                                                                           |
| <b>Applications</b>       | IF;WB;IHC;ELISA                                                                                                                                                                                                                                                                                    |
| <b>Gene Name</b>          | MAPK8/9/10                                                                                                                                                                                                                                                                                         |
| <b>Protein Name</b>       | Mitogen-activated protein kinase 8/9/10                                                                                                                                                                                                                                                            |
| <b>Immunogen</b>          | The antiserum was produced against synthesized peptide derived from human JNK1/2/3 around the phosphorylation site of Thr183 and Tyr185. AA range:151-200                                                                                                                                          |
| <b>Specificity</b>        | Phospho-JNK1/2/3 (T183/Y185) Polyclonal Antibody detects endogenous levels of JNK1/2/3 protein only when phosphorylated at T183/Y185.                                                                                                                                                              |
| <b>Formulation</b>        | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                            |
| <b>Source</b>             | Polyclonal, Rabbit,IgG                                                                                                                                                                                                                                                                             |
| <b>Purification</b>       | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                              |
| <b>Dilution</b>           | IF: 1:50-200 WB 1:500-2000, IHC 1:50-300 IHC 1:50-300                                                                                                                                                                                                                                              |
| <b>Concentration</b>      | 1 mg/ml                                                                                                                                                                                                                                                                                            |
| <b>Purity</b>             | ≥90%                                                                                                                                                                                                                                                                                               |
| <b>Storage Stability</b>  | -20°C/1 year                                                                                                                                                                                                                                                                                       |
| <b>Synonyms</b>           | MAPK8; JNK1; PRKM8; SAPK1; SAPK1C; Mitogen-activated protein kinase 8; MAP kinase 8; MAPK 8; JNK-46; Stress-activated protein kinase 1c; SAPK1c; Stress-activated protein kinase JNK1; c-Jun N-terminal kinase 1; MAPK9; JNK2; PRKM9; SAPK1A; Mi                                                   |
| <b>Observed Band</b>      | 46+54kD                                                                                                                                                                                                                                                                                            |
| <b>Cell Pathway</b>       | 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. . |
| <b>Tissue Specificity</b> | Brain,Epithelium,Fetal brain,Lung,Pooled,Testis,                                                                                                                                                                                                                                                   |
| <b>Function</b>           | 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                                                                                                         |

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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

#### 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

#### matters needing attention

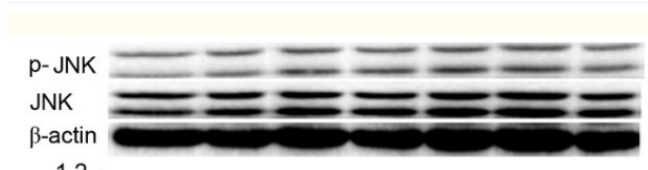
Avoid repeated freezing and thawing!

#### Usage suggestions

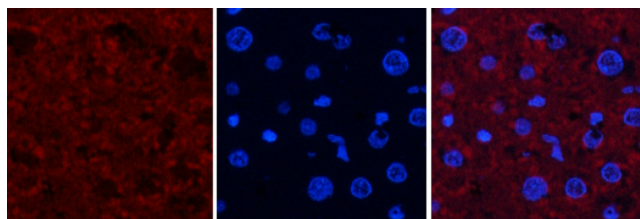
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



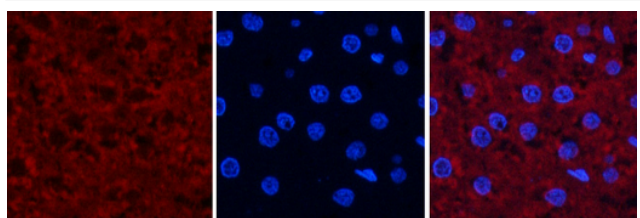
## Products Images



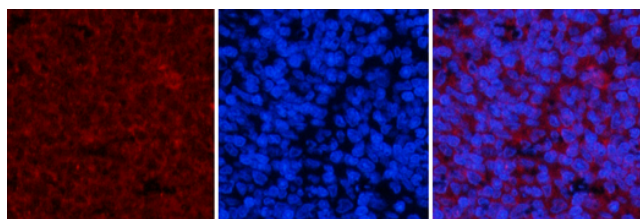
Xu, Yini, et al. "Inhibitory effects of oxymatrine on TGF- $\beta$ 1-induced proliferation and abnormal differentiation in rat cardiac fibroblasts via the p38MAPK and ERK1/2 signaling pathways." Molecular medicine reports 16.4 (2017): 5354-5362.



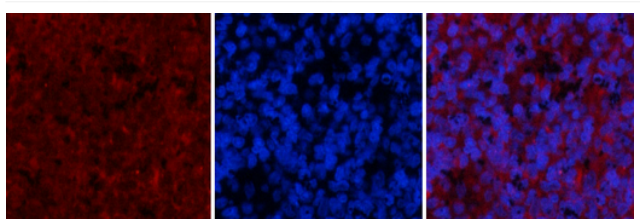
Immunofluorescence analysis of rat-liver tissue. 1, JNK1/2/3 (phospho Thr183/Y185) Polyclonal Antibody (red) was diluted at 1:200 (4°C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min). 3, Picture B: DAPI (blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



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