

## JNK1/2/3 (Phospho Thr183) Rabbit pAb

CatalogNo: YP0156

Orthogonal Validated 

### Key Features

**Host Species**

- Rabbit

**Reactivity**

- Human, Mouse, Rat, Chicken

**Applications**

- WB, IHC, IF, ELISA

**MW**

- 46kD, 54kD (Observed)

**Isotype**

- IgG

### Recommended Dilution Ratios

**WB 1:500-1:2000****IHC 1:100-1:300****IF 1:200-1:1000****ELISA 1:5000****Not yet tested in other applications.**

### Storage

**Storage\***

-15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation**

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

### Basic Information

**Clonality**

Polyclonal

### Immunogen Information

**Immunogen**

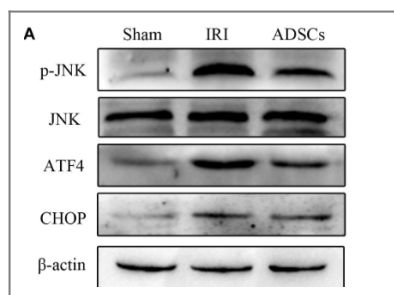
The antiserum was produced against synthesized peptide derived from human SAPK/JNK around the phosphorylation site of Thr183. AA range: 151-200

**Specificity** Phospho-JNK1/2/3 (T183) Polyclonal Antibody detects endogenous levels of JNK1/2/3 protein only when phosphorylated at T183. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):MMtPY

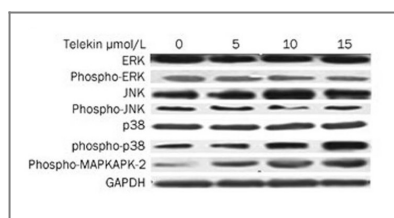
## Target Information

Gene name	MAPK8/9/10		
Protein Name	Mitogen-activated protein kinase 8/9/10		
	Organism	Gene ID	UniProt ID
	Human	<a href="#">5599</a> ; <a href="#">5601</a> ; <a href="#">5602</a> ;	<a href="#">P45983</a> ; <a href="#">P45984</a> ; <a href="#">P53779</a> ;
	Mouse	<a href="#">26419</a> ; <a href="#">26420</a> ;	
	Rat	<a href="#">116554</a> ; <a href="#">50658</a> ; <a href="#">25272</a> ;	<a href="#">P49185</a> ; <a href="#">P49186</a> ; <a href="#">P49187</a> ;
Cellular Localization	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. .		
Tissue specificity	Brain,Epithelium,Fetal brain,Lung,Pooled,Testis,		
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, JDP2 and ATF2 and thus regulates AP-1 transcriptional activity. In T-cells, JNK1 and JNK2 are required for polarized differentiation of T-helper cells into Th1 cells (By similarity). Phosphorylates heat shock factor protein 4 (HSF4).,online information:C-Jun N-terminal kinases entry,PTM:Dually phosphorylated on Thr-183 and Tyr-185, which activates the enzyme.,similarity:Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MAP kinase subfamily.,similarity:Contains 1 protein kinase domain.,subunit:Binds to at least four scaffolding proteins, MAPK8IP1/JIP-1, MAPK8IP2/JIP-2, MAPK8IP3/JIP-3/JAP1 and SPAG9/MAPK8IP4/JIP-4. These proteins also bind other components of the JNK signaling pathway. Interacts with TP53 and WWOX. Interacts with JAMP. Forms a complex with MAPK8IP1 and RGNEF (By similarity). Interacts with NFATC4.,		

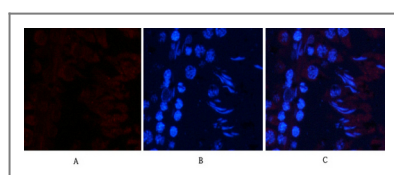
## Validation Data



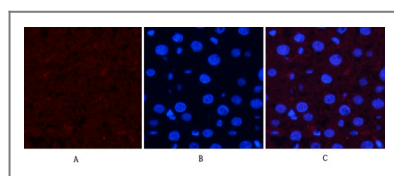
Jiao, Zhihui, et al. "Adipose-derived stem cells protect ischemia-reperfusion and partial hepatectomy by attenuating endoplasmic reticulum stress." *Frontiers in cell and developmental biology* 8 (2020): 177.



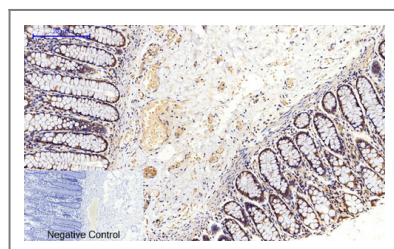
Li, Lin, et al. "Telekin suppresses human hepatocellular carcinoma cells in vitro by inducing G 2/M phase arrest via the p38 MAPK signaling pathway." *Acta Pharmacologica Sinica* 35.10 (2014): 1311.



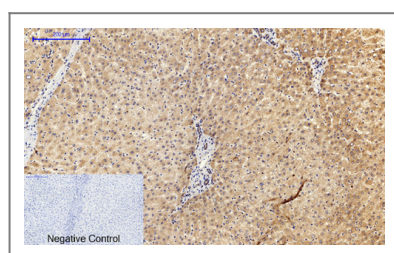
Immunofluorescence analysis of rat-testis tissue. 1,JNK1/2/3 (phospho Thr183) Polyclonal Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge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



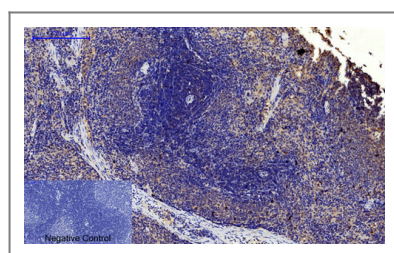
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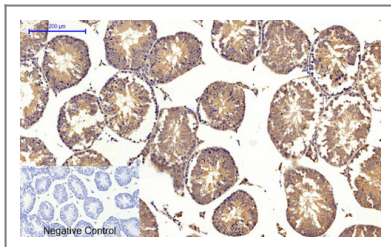
Immunohistochemical analysis of paraffin-embedded Human-colon tissue. 1,JNK1/2/3 (phospho Thr183) Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



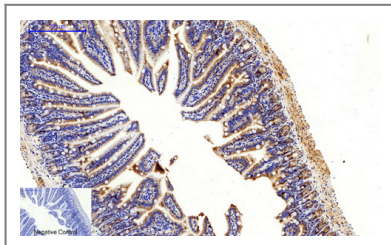
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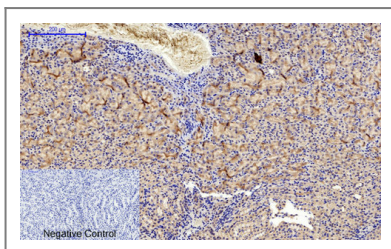
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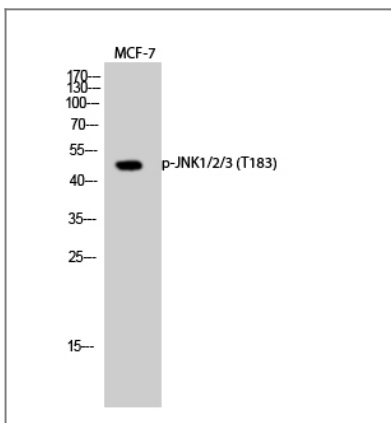
Immunohistochemical analysis of paraffin-embedded Mouse-testis tissue. 1,JNK1/2/3 (phospho Thr183) Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



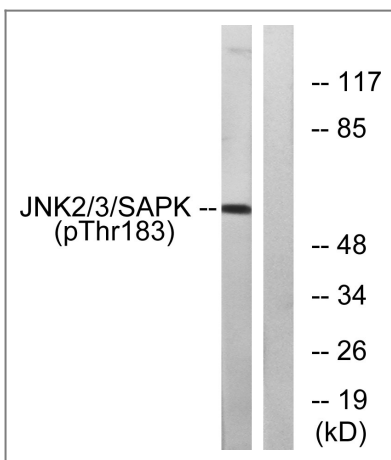
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Western Blot analysis of MCF-7 cells using Phospho-JNK1/2/3 (T183) Polyclonal Antibody diluted at 1:1000



Western blot analysis of lysates from HeLa cells treated with Anisomycin 200ng/ml 10', using SAPK/JNK (Phospho-Thr183) Antibody. The lane on the right is blocked with the phospho peptide.

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