

# JNK1/2/3 (Phospho Thr183/Thr183/Thr221) (PT0914R) PT® Rabbit mAb

CatalogNo: YM8683 **Recombinant** 

## Key Features

### Host Species

- Rabbit

### Reactivity

- Human, Mouse, Rat

### Applications

- WB, IF, IP, ELISA

### MW

- 48kD (Calculated)
- 46,54kD (Observed)

### Isotype

- IgG, Kappa

## Recommended Dilution Ratios

**WB 1:2000-1:10000****IF 1:200-1:1000****ELISA 1:5000-1:20000****IP 1:50-1:200**

## Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)**Formulation** PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

## Basic Information

**Clonality** Monoclonal**Clone Number** PT0914R

## Immunogen Information

**Specificity** Phospho-JNK1/2/3 (T183/T183/T221) Antibody detects endogenous levels of JNK1/2/3 protein only when phosphorylated at T183/T183/T221. 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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

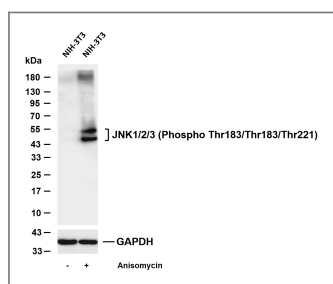
Cytoplasm . Nucleus . Cell junction, synapse . In the cortical neurons, predominantly cytoplasmic and associated with the Golgi apparatus and endosomal fraction. Increased neuronal activity increases phosphorylated form at synapses (By similarity). Colocalizes with POU5F1 in the nucleus. .

**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/JSAP1 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 RGFNEF (By similarity). Interacts with NFATC4.,

## Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-JNK1/2/3 (Phospho Thr183/Thr183/Thr221) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: NIH-3T3 Lane 2: NIH-3T3 was treated with Anisomycin(25ug/ml) for 30 minutes Predicted band size: 48kDa Observed band size: 46,54kDa

## | Contact information

Orders: order@immunoway.com  
Support: tech@immunoway.com  
Telephone: 877-594-3616 (Toll Free), 408-747-0185  
Website: <http://www.immunoway.com>  
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



Please scan the QR code to access additional product information:

**JNK1/2/3 (Phospho Thr183/Thr183/Thr221) (PT0914R) PT® Rabbit mAb**

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