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,ICC/IF,IP,ELISA

MW
- 48kD (Calculated)

46,54kD (Observed)

Isotype
- IgG, Kappa

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

Recommended Dilution Ratios

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

Basic Information

Clonality	Monoclonal
Clone Number	PT0914R

Immunogen Information

Immunogen	The specific immunogen used to produce this antibody is proprietary 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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

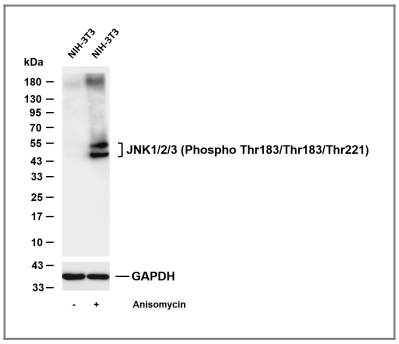
Organism	Gene ID	UniProt ID
Human	5599; 5601; 5602;	P45983; P45984; P53779;
Mouse	26419; 26420;	
Rat	116554; 50658; 25272;	P49185; P49186; P49187;

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. .

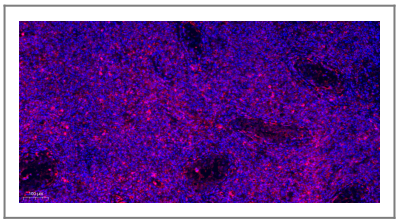
Tissue specificity Brain ,Epithelium ,Fetal brain ,Lung ,Pooled ,Testis ,

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 RGNEF (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



Immunofluorescence analysis of human testis. 1,primary antibody(red) was diluted at 1:200(4℃,overnight). 2, AFlour 594(catalog: RS3611) labled Secondary antibody was diluted at 1:300(room temperature, 50min).

Contact information

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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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