

JNK2 (PT0852R) PT® Rabbit mAb

CatalogNo: YM8621 **Recombinant** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, IP, ELISA

MW

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

Isotype

- IgG, Kappa

Recommended Dilution Ratios

IHC 1:2000-1:10000**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** PT0852R

Immunogen Information

Specificity Endogenous

Target Information

Gene name MAPK9

Protein Name Mitogen-activated protein kinase 9

Organism	Gene ID	UniProt ID
Human	5601 ;	P45984 ;
Mouse	26420 ;	Q9WTU6 ;
Rat	50658 ;	P49186 ;

Cellular Localization Cytoplasm . Nucleus . Colocalizes with POU5F1 in the nucleus. .

Tissue specificity Brain, Skin,

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:JNK2 isoforms display different binding patterns: alpha-1 and alpha-2 preferentially bind to c-Jun, whereas beta-1 and beta-2 bind to ATF2. However, there is no correlation between binding and phosphorylation, which is achieved at about the same efficiency by all isoforms. JUNB is not a substrate for JNK2 alpha-2, and JUND binds only weakly to it., 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 c-Jun 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., PTM:Dually phosphorylated on Thr-183 and Tyr-185, which activates the enzyme. Autophosphorylated in vitro., 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 NFATC4.,

Validation Data



Human breast carcinoma was stained with anti-JNK2 rabbit antibody



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-JNK2 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: C6 Lane 2: 3T3-L1 Lane 3: HEK293 Predicted band size: 48kDa Observed band size: 46,54kDa

Contact information

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