JNK1/2/3 (Phospho Thr183/Tyr185) Rabbit pAb

CatalogNo: YP0157 Orthogonal Validated

Key Features

Host Species	Reactivity	Applications
• Rabbit	• Human,Mouse,Rat,Chicken,Pig(testedbyourcustomer),fish(testedbyourcustomer)	• WB,IHC,IF,ELISA

MW	Isotype
• 46kD,54kD (Observed)	• IgG

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.

Recommended Dilution Ratios

WB 1:500-1:2000
IHC 1:100-1:300
IF 1:200-1:1000
ELISA 1:10000
Not yet tested in other applications.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	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

Specificity This antibody detects endogenous levels of p46 and p54 JNK when phosphorylated at Thr183 and Tyr185. It will also react with SAPK/JNK singly phosphorylated at Tyr185. .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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):MMtPyVV

Target Information

Gene name MAPK8/9/10

Protein Name Mitogen-activated protein kinase 8/9/10

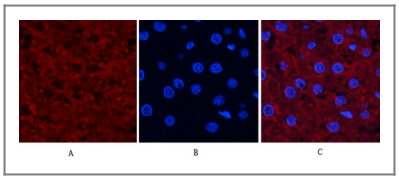
Organism	Gene ID	UniProt ID
Human	5599; 5601; 5602;	P45983; P45984; P53779;
Mouse	26419; 26420;	
Rat	116554; 50658; 25272;	P49185; P49186; P49187;

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. .

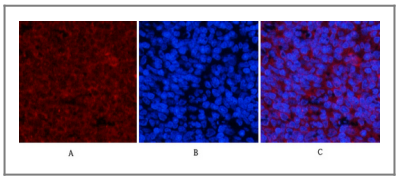
Tissue specificity Brain ,Epithelium ,Fetal brain ,Lung ,Pooled ,Testis ,

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. ,

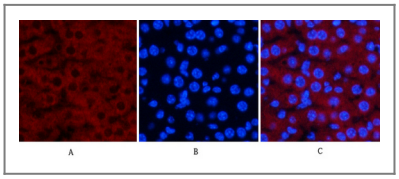
Validation Data



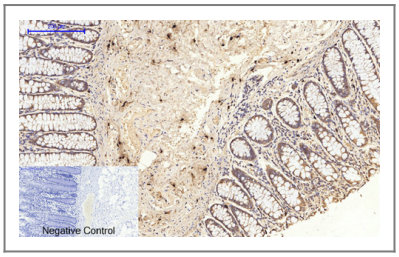
Immunofluorescence analysis of rat-liver tissue. 1,JNK1/2/3 (phospho Thr183/Y185) Polyclonal Antibody (red) was diluted at 1:200 (4℃ overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300 (room temperature, 50min).3, Picture B: DAPI (blue) 10min. Picture A:Target. Picture B: DAPI. Picture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



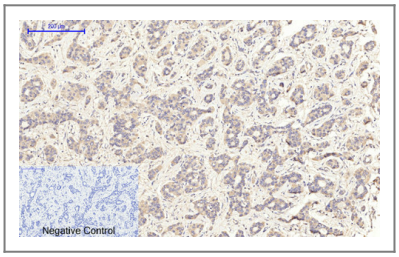
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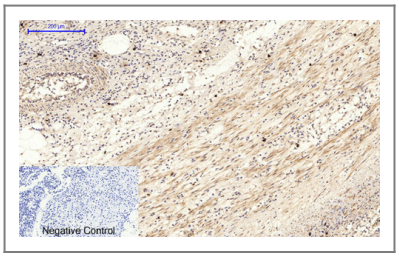
Immunofluorescence analysis of mouse-liver tissue. 1,JNK1/2/3 (phospho Thr183/Y185) Polyclonal Antibody (red) was diluted at 1:200 (4℃ overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300 (room temperature, 50min).3, Picture B: DAPI (blue) 10min. Picture A:Target. Picture B: DAPI. Picture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



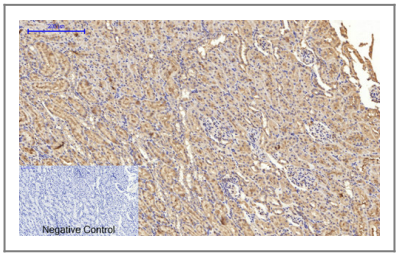
Immunohistochemical analysis of paraffin-embedded Human-colon tissue. 1,JNK1/2/3 (phospho Thr183/Y185) Polyclonal Antibody was diluted at 1:200 (4℃ overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98℃,20min). 3,Secondary antibody was diluted at 1:200 (room tempeRature, 30min). Negative control was used by secondary antibody only.



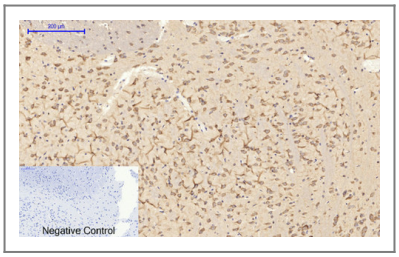
Immunohistochemical analysis of paraffin-embedded Human-liver-cancer tissue. 1,JNK1/2/3 (phospho Thr183/Y185) Polyclonal Antibody was diluted at 1:200 (4℃ overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98℃,20min). 3,Secondary antibody was diluted at 1:200 (room tempeRature, 30min). Negative control was used by secondary antibody only.



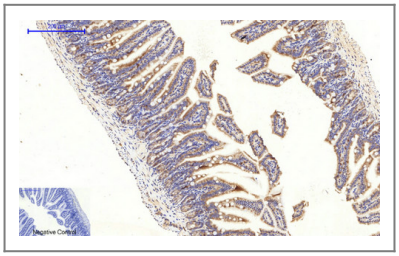
Immunohistochemical analysis of paraffin-embedded Human-Appendix tissue. 1,JNK1/2/3 (phospho Thr183/Y185) Polyclonal Antibody was diluted at 1:200 (4℃ overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98℃,20min). 3,Secondary antibody was diluted at 1:200 (room tempeRature, 30min). Negative control was used by secondary antibody only.



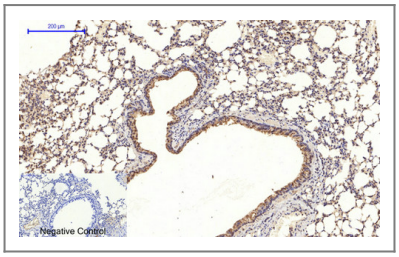
Immunohistochemical analysis of paraffin-embedded Rat-kidney tissue. 1,JNK1/2/3 (phospho Thr183/Y185) Polyclonal Antibody was diluted at 1:200 (4℃ overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98℃,20min). 3,Secondary antibody was diluted at 1:200 (room tempeRature, 30min). Negative control was used by secondary antibody only.



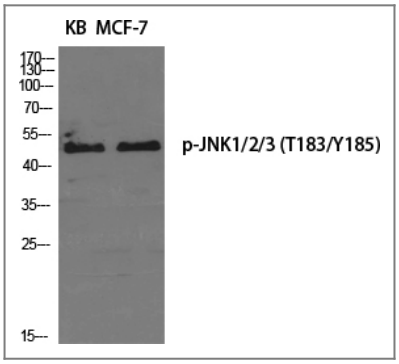
Immunohistochemical analysis of paraffin-embedded Rat-brain tissue. 1,JNK1/2/3 (phospho Thr183/Y185) Polyclonal Antibody was diluted at 1:200 (4℃ overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98℃,20min). 3,Secondary antibody was diluted at 1:200 (room tempeRature, 30min). Negative control was used by secondary antibody only.



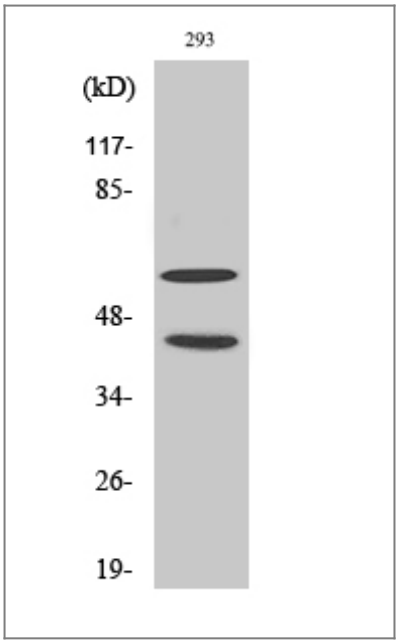
Immunohistochemical analysis of paraffin-embedded Mouse-colon tissue. 1,JNK1/2/3 (phospho Thr183/Y185) Polyclonal Antibody was diluted at 1:200 (4℃ overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98℃,20min). 3,Secondary antibody was diluted at 1:200 (room tempeRature, 30min). Negative control was used by secondary antibody only.



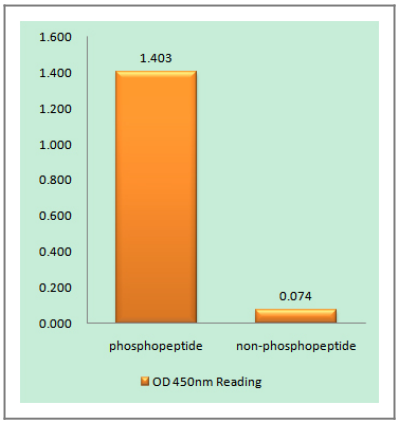
Immunohistochemical analysis of paraffin-embedded Mouse-lung tissue. 1,JNK1/2/3 (phospho Thr183/Y185) Polyclonal Antibody was diluted at 1:200 (4℃ overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98℃,20min). 3,Secondary antibody was diluted at 1:200 (room tempeRature, 30min). Negative control was used by secondary antibody only.



Western Blot analysis of various cells using Phospho-JNK1/2/3 (T183/Y185) Polyclonal Antibody diluted at 1:2000



Western Blot analysis of 293 cells using Phospho-JNK1/2/3 (T183/Y185) Polyclonal Antibody diluted at 1:2000



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using JNK1/2/3 (Phospho-Thr183+Tyr185) Antibody

Contact information

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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/Tyr185) Rabbit pAb**

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