

## JNK1/JNK2/JNK3(phospho-Thr183/Tyr185) Antibody

Catalog No: #11504



Package Size: #11504-1 50ul #11504-2 100ul #11504-4 25ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

## Description

Product Name	JNK1/JNK2/JNK3(phospho-Thr183/Tyr185) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Applications	WB IF
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of JNK1/JNK2/JNK3 only when phosphorylated at Thr183/Tyr185.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of Thr183/Tyr185 (M-M-T(p)-P-Y(p)-V - V ) derived from Human JNK1/JNK2/JNK3.
Target Name	JNK1/JNK2/JNK3
Modification	Phospho-Thr183/Tyr185
Other Names	Stress-activated protein kinase JNK1; c-Jun N-terminal kinase 1; JNK-46
Accession No.	Swiss-Prot: P45983 P45984 P53779NCBI Protein: NP_002741.1 NP_001128516.1 NP_002744.1
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

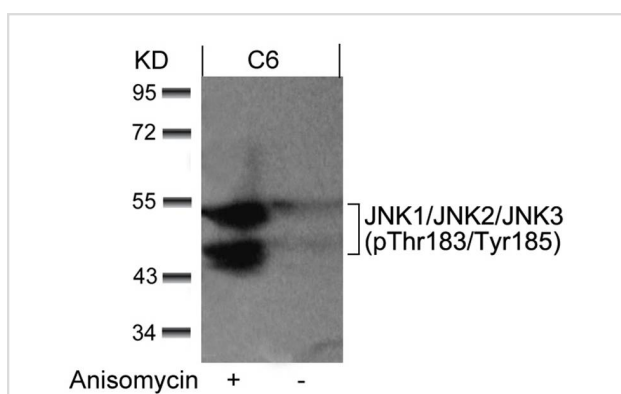
## Application Details

Predicted MW: 46 54 kd

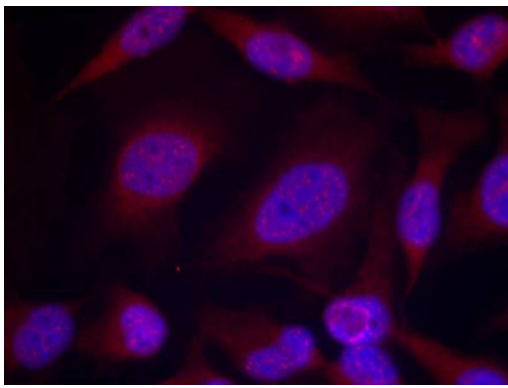
Western blotting: 1:500~1:1000

Immunofluorescence: 1:100~1:200

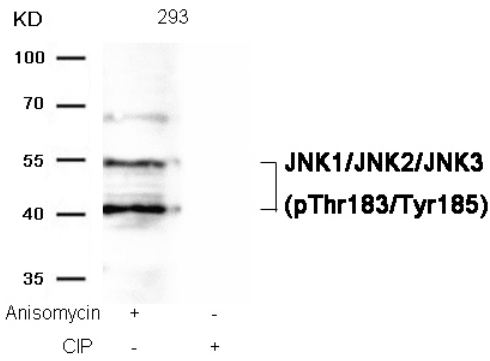
## Images



Western blot analysis of extracts from C6 cells untreated or treated with anisomycin using JNK1/JNK2/JNK3(phospho-Thr183/Tyr185) Antibody #11504.



Immunofluorescence staining of methanol-fixed HeLa cells using JNK1/JNK2/JNK3(phospho-Thr183/Tyr185) Antibody #11504.



Western blot analysis of extracts from 293 cells, treated with Anisomycin or calf intestinal phosphatase (CIP), using JNK1/JNK2/JNK3 (phospho-Thr183/Tyr185) Antibody #11504.

## Background

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). 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. 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. 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. Required for stress-induced neuronal apoptosis and the pathogenesis of glutamate excitotoxicity

Davis, R.J. (1999) *Biochem Soc Symp* 64, 1-12.

Ichijo, H. (1999) *Oncogene* 18, 6087-93.

Kyriakis, J.M. and Avruch, J. (2001) *Physiol Rev* 81, 807-69.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.