



Rabbit Anti-phospho-JNK1 (Thr183) antibody

SL17591R

Product Name:	phospho-JNK1 (Thr183)
Chinese Name:	磷酸化氨基末端激酶1抗体
Alias:	JNK1 (phospho T183); p-JNK1 (phospho T183); AI849689; c Jun N terminal kinase 1; C-JUN kinase 1; c-Jun N-terminal kinase 1; EC 2.7.11.24; JNK 1; JNK; JNK-46; JNK1A2; JNK21B1/2; MAP kinase 8; MAPK 8; mapk8; Mitogen activated protein kinase 8; Mitogen-activated protein kinase 8; MK08_HUMAN; p54 gamma; Prkm8; Protein kinase JNK1; Protein kinase, mitogen-activated, 8; SAPK 1; SAPK gamma; SAPK1; Stress-activated protein kinase 1; Stress-activated protein kinase JNK1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Zebrafish,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	50kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthesised phosphopeptide derived from human JNK1 around the phosphorylation site of Thr183:MM(p-T)PY
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed

The protein encoded by this gene is a member of the MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. This kinase is activated by various cell stimuli, and targets specific transcription factors, and thus mediates immediate-early gene expression in response to cell stimuli. The activation of this kinase by tumor-necrosis factor alpha (TNF-alpha) is found to be required for TNF-alpha induced apoptosis. This kinase is also involved in UV radiation induced apoptosis, which is thought to be related to cytochrom c-mediated cell death pathway. Studies of the mouse counterpart of this gene suggested that this kinase play a key role in T cell proliferation, apoptosis and differentiation. Five alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jun 2013]

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). 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.

Post-translational modifications:

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.
Contains 1 protein kinase domain.

SWISS:

P45983

Gene ID:

5599

Database links:

[Entrez Gene: 5599](#) Human

[Entrez Gene: 26419](#) Mouse

[Entrez Gene: 116554](#) Rat

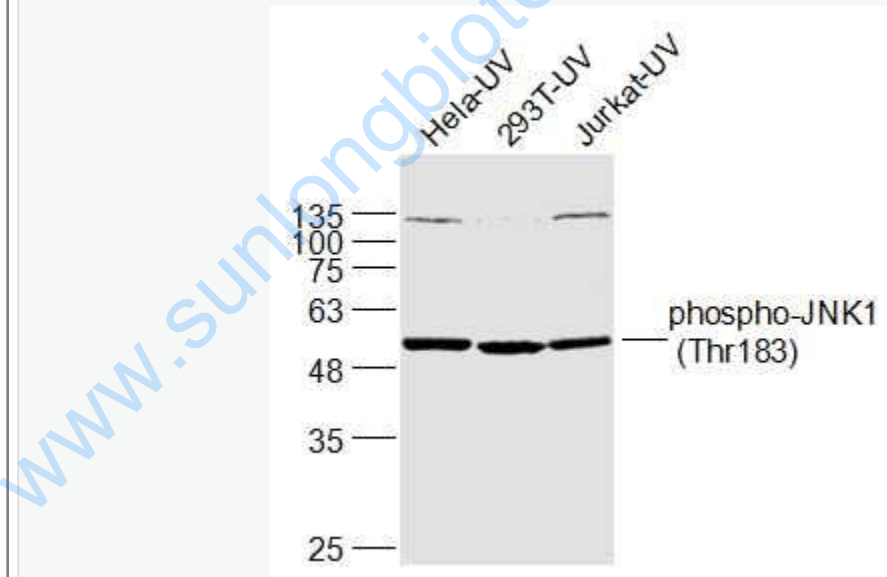
Product Detail:

[Omin: 601158](#) Human
[SwissProt: P45983](#) Human
[SwissProt: Q91Y86](#) Mouse
[SwissProt: P49185](#) Rat
[Unigene: 138211](#) Human
[Unigene: 21495](#) Mouse
[Unigene: 4090](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

Hela-UV(Human) Cell Lysate at 30 ug

293T-UV(Human) Cell Lysate at 30 ug

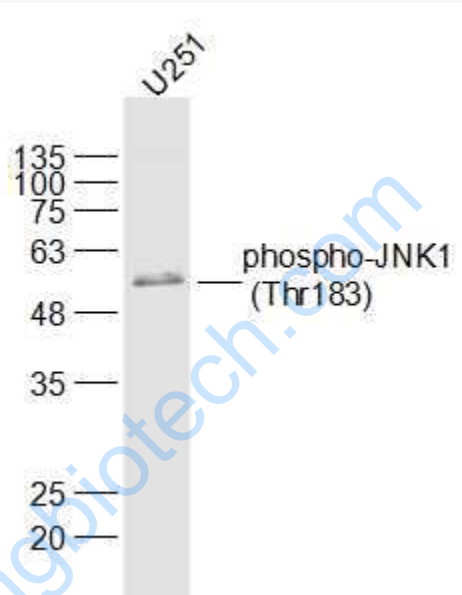
Jurkat-UV(Human) Cell Lysate at 30 ug

Primary: Anti-phospho-JNK1 (Thr183) (SL17591R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 50 kD

Observed band size: 50 kD



Sample:

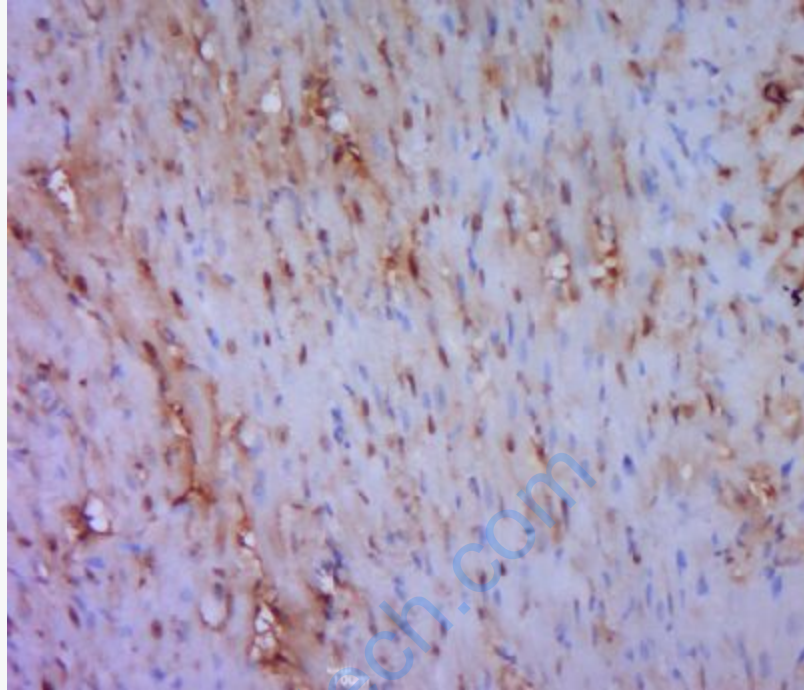
U251(Human) Cell Lysate at 30 ug

Primary: Anti-phospho-JNK1 (Thr183) (SL17591R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 50 kD

Observed band size: 50 kD



Paraformaldehyde-fixed, paraffin embedded (rat heart tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (p-JNK1 (Thr183)) Polyclonal Antibody, Unconjugated (SL17591R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.