



Rabbit Anti-JNK1+JNK2 antibody

SL10562R

Product Name:	JNK1+JNK2
Chinese Name:	氨基末端激酶1/2抗体
Alias:	JNK1 + JNK2; JNK1 + 2; JNK1/2; c Jun N terminal kinase 1; JNK1; JNK2; JAK 1A; JAK1A; JNK 1; JNK 46; JNK; JNK1A2; JNK21B1/2; MAPK 8; MAPK8; Mitogen activated protein kinase 8; PRKM 8; PRKM8; Protein kinase JNK1; SAPK 1; SAPK gamma; SAPK1; c-Jun; Stress activated protein kinase JNK1; Tyrosine protein kinase JAK1; MK08 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Rabbit,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:	42kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human JNK1+JNK2:131-230/384
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
Product Detail:	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: 5601](#)Human

[Entrez Gene: 26419](#)Mouse

[Entrez Gene: 26420](#)Mouse

[Entrez Gene: 116554](#)Rat

[Entrez Gene: 50658](#)Rat

[Omim: 601158](#)Human

[Omim: 602896](#)Human

[SwissProt: P45983](#)Human

[SwissProt: P45984](#)Human

[SwissProt: Q91Y86](#)Mouse

[SwissProt: Q9WTU6](#)Mouse

[SwissProt: P49185](#)Rat

[SwissProt: P49186](#)Rat

[Unigene: 138211](#)Human

[Unigene: 348446](#)Human

[Unigene: 21495](#)Mouse

[Unigene: 68933](#)Mouse

[Unigene: 4090](#)Rat

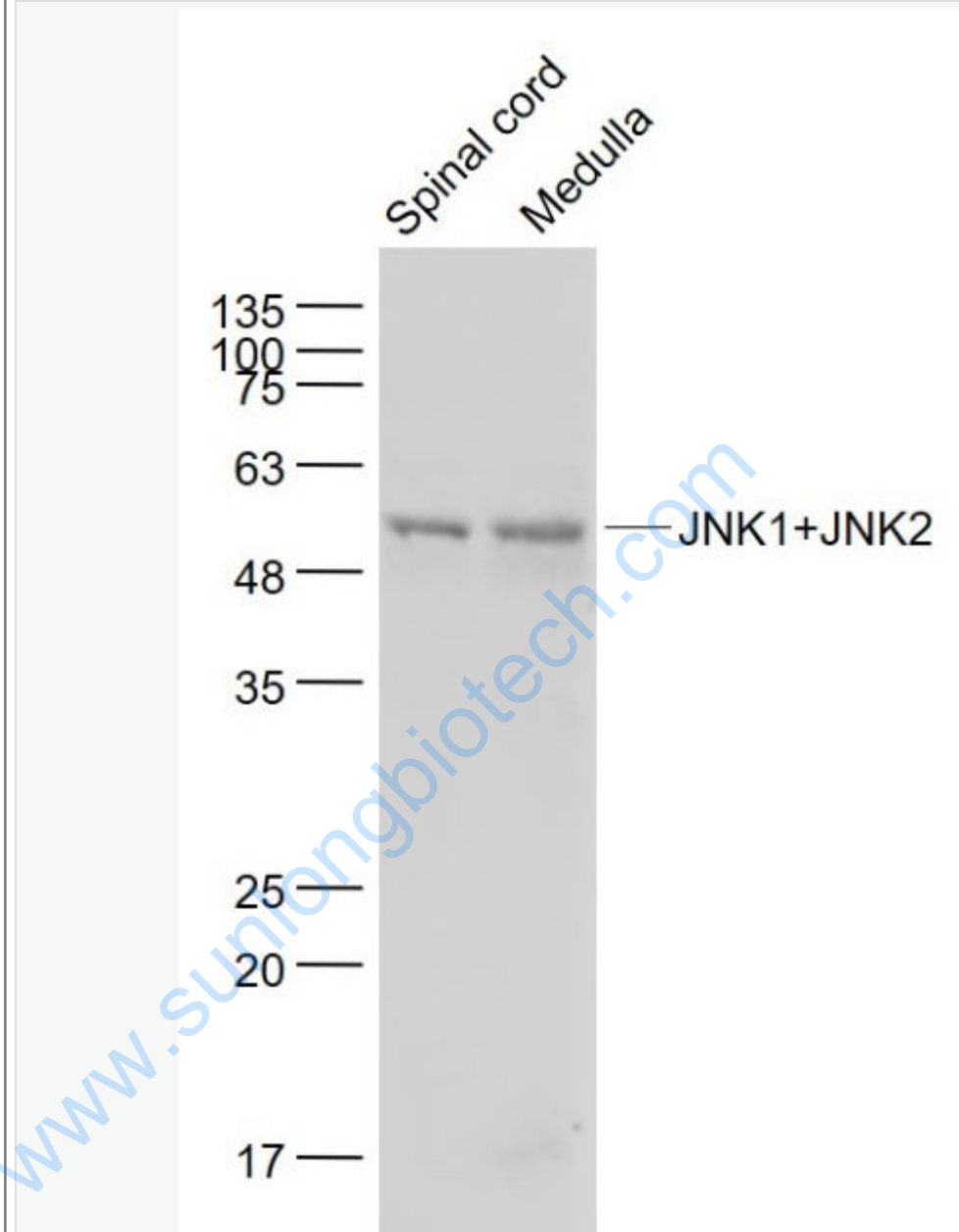
[Unigene: 9910](#)Rat

Important Note:

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

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Picture:



Sample:

Spinal cord (Rat) Lysate at 40 ug

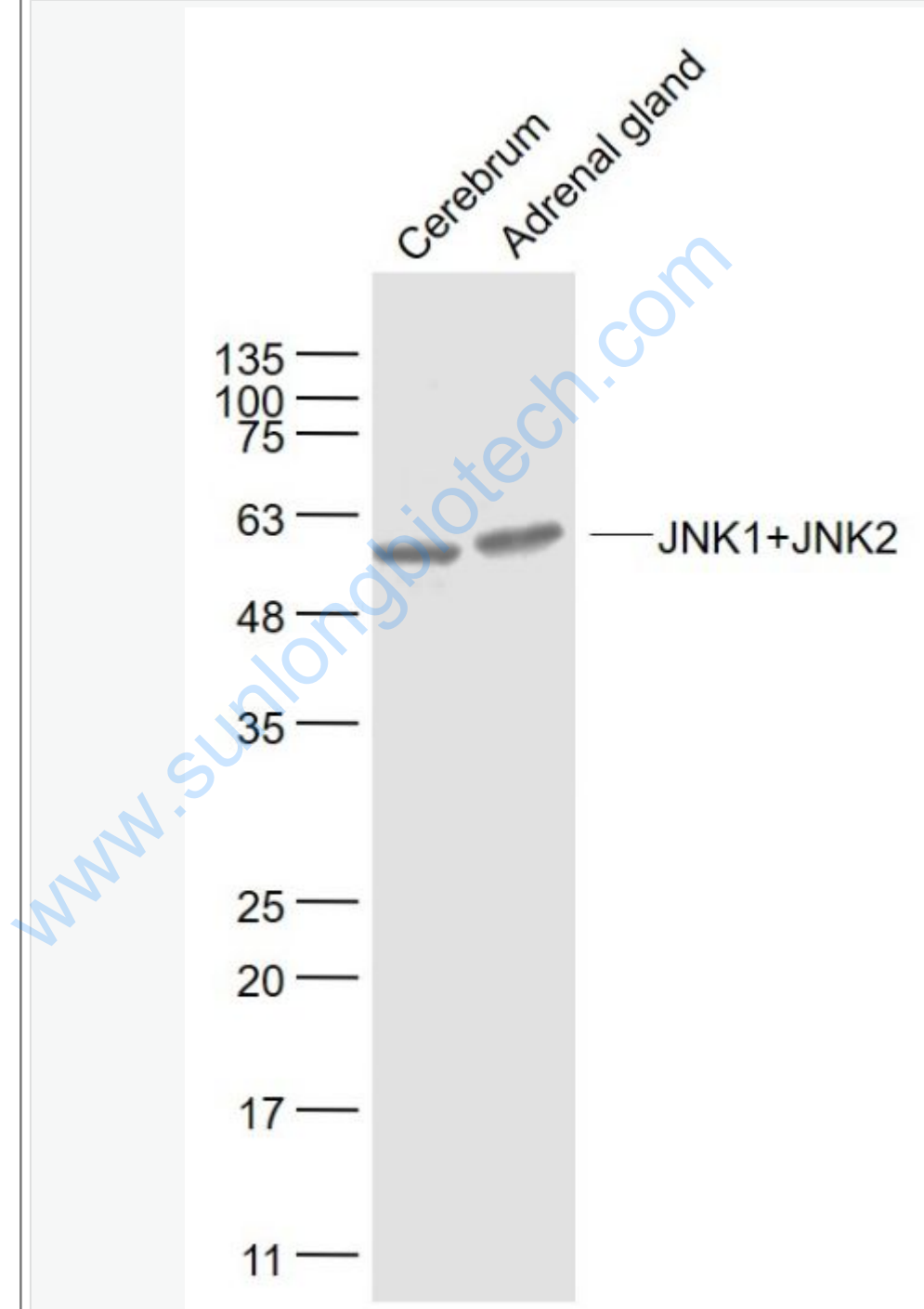
Medulla (Rat) Lysate at 40 ug

Primary: Anti- JNK1+JNK2 (SL10562R) at 1/1000 dilution

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

Predicted band size: 42 kD

Observed band size: 55 kD



Sample:

Cerebrum (Mouse) Lysate at 40 ug

Adrenal gland(Rat) Lysate at 40 ug

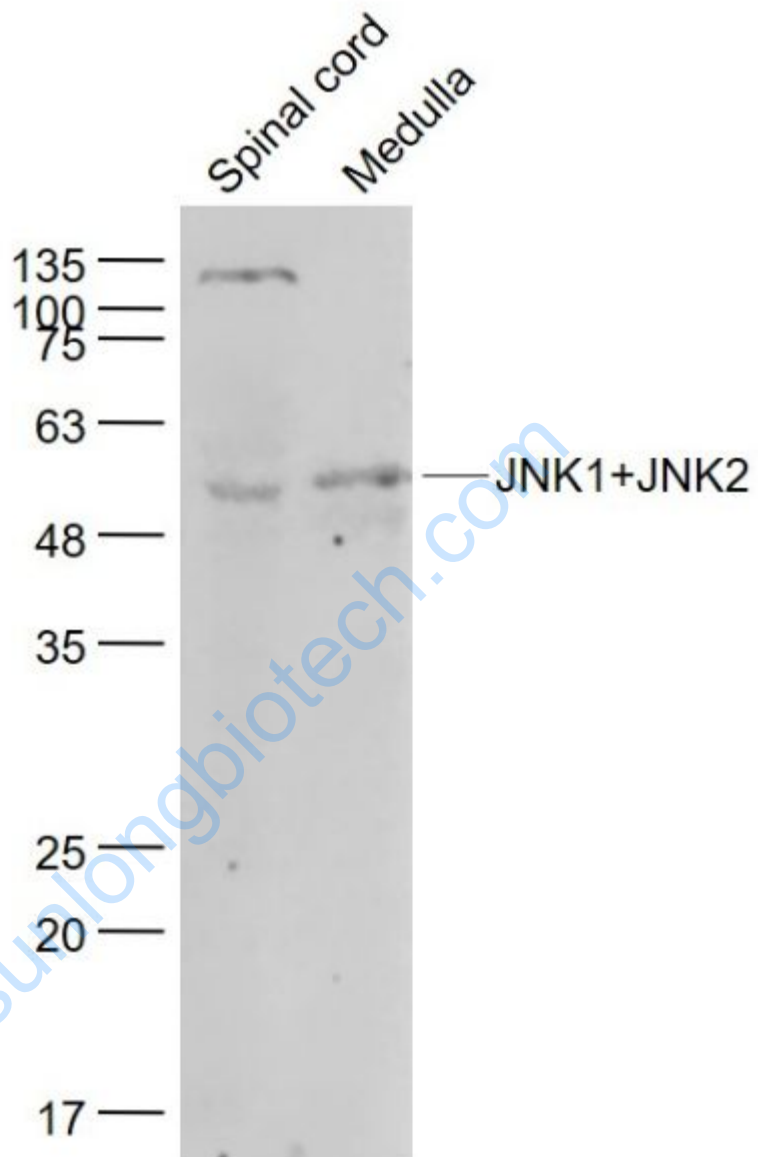
Primary: Anti- JNK1+JNK2 (SL10562R) at 1/1000 dilution

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

Predicted band size: 42 kD

Observed band size: 55/57 kD

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Sample:

Spinal cord (Mouse) Lysate at 40 ug

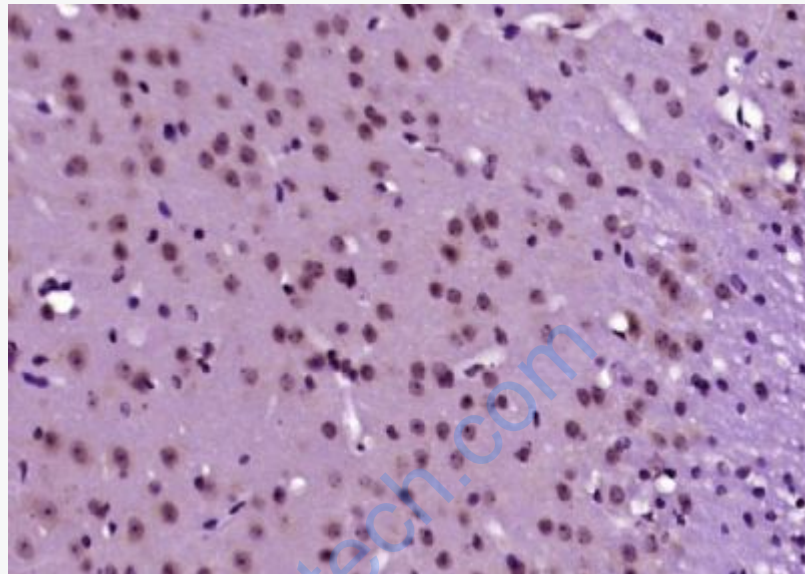
Medulla (Mouse) Lysate at 40 ug

Primary: Anti- JNK1+JNK2 (SL10562R) at 1/1000 dilution

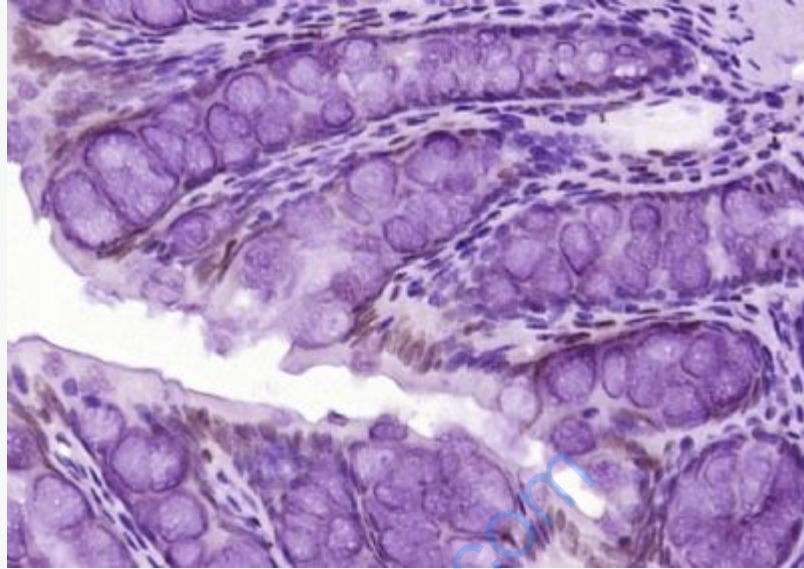
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 42 kD

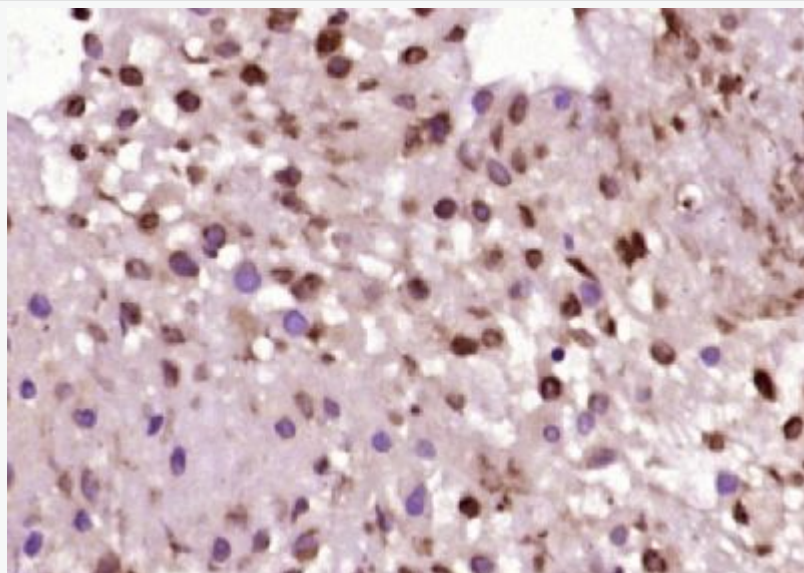
Observed band size: 55 kD



Paraformaldehyde-fixed, paraffin embedded (mouse brain 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 (JNK1+JNK2) Polyclonal Antibody, Unconjugated (SL10562R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse colon 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 (JNK1+JNK2) Polyclonal Antibody, Unconjugated (SL10562R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human brain glioma); 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 (JNK1+JNK2) Polyclonal Antibody, Unconjugated (SL10562R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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