SunLong Biotech Co.,LTD
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E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

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.
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,Mouse(predicted:Rat,Dog,Pig,Cow,Rabbit,Sheep)
Applications	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	42kDa
Cellular localization	The nucleus cytoplasmic
Form	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
Buffer Solution	Human,Mouse(predicted:Rat,Dog,Pig,Cow,Rabbit,Sheep)1M TBS(pH7.4) with 1% BSA, Human,Mouse(predicted:Rat,Dog,Pig,Cow,Rabbit,Sheep)3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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]

Product Detail

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

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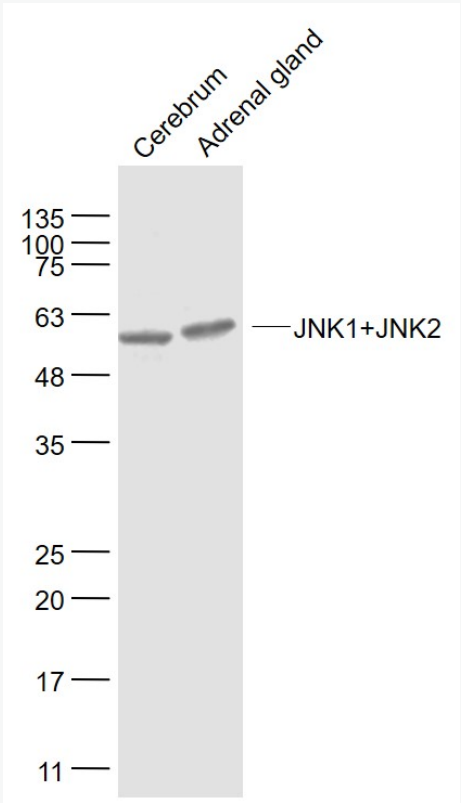
Product Picture



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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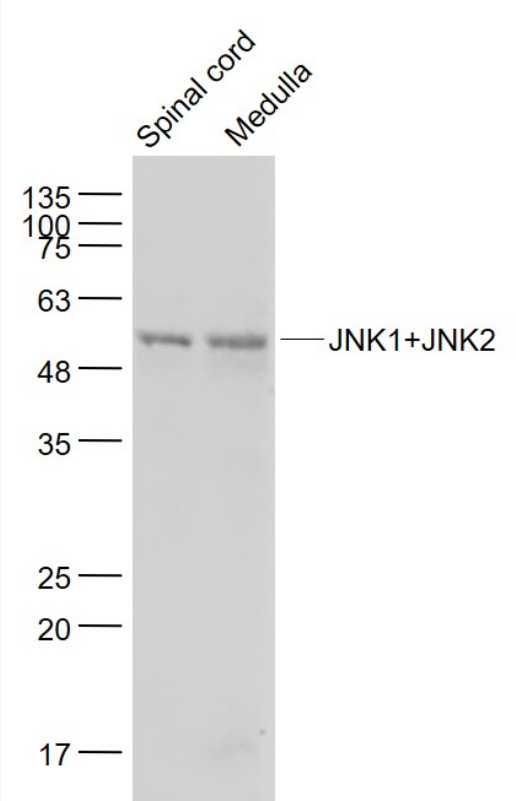

Sample:

Spinal cord (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

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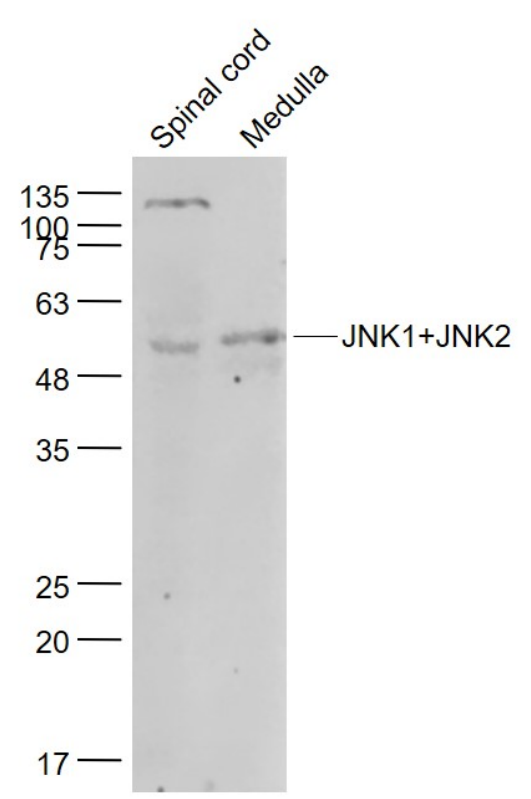

Sample:

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

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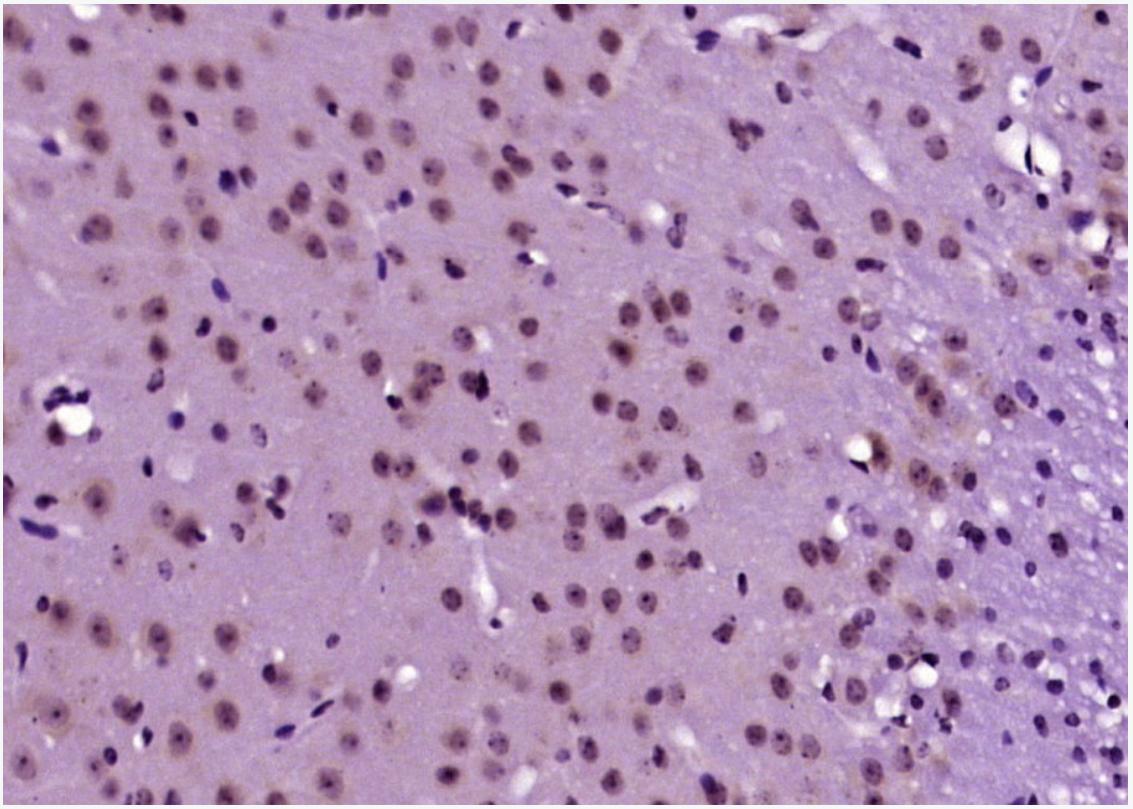

Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (JNK1+JNK2) Polyclonal Antibody, Unconjugated (SL10562R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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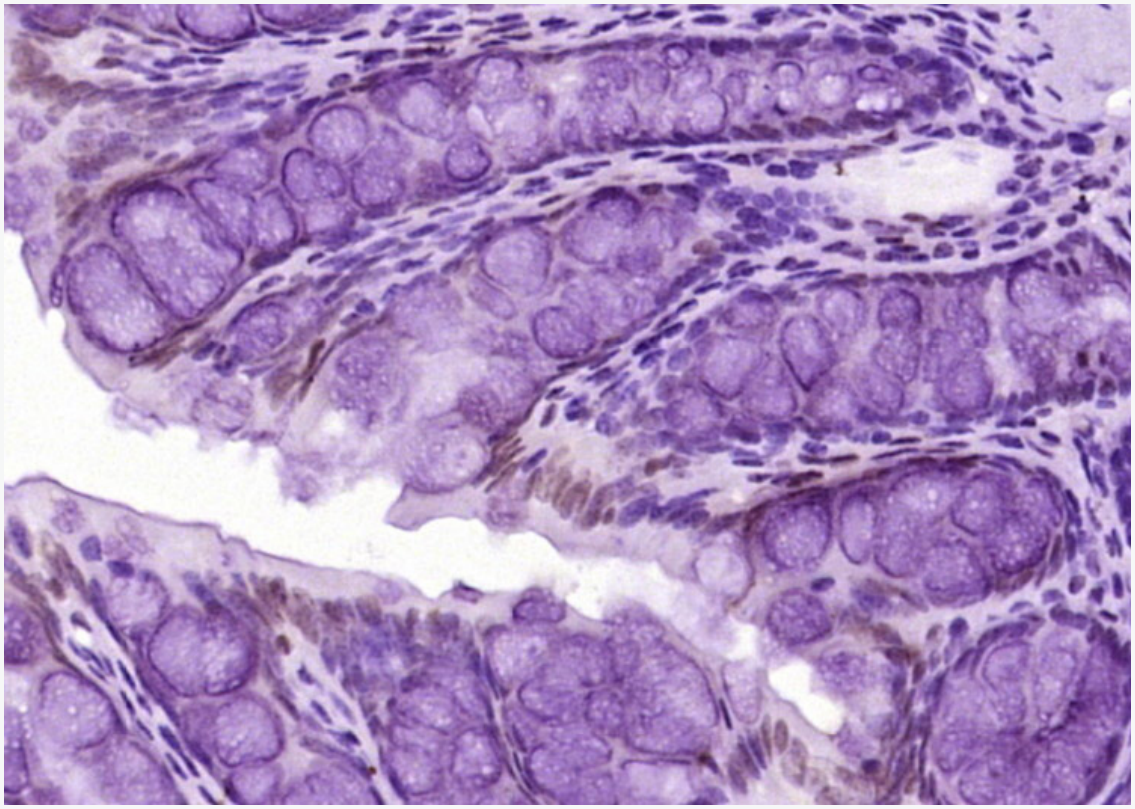

Paraformaldehyde-fixed, paraffin embedded (mouse colon tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (JNK1+JNK2) Polyclonal Antibody, Unconjugated (SL10562R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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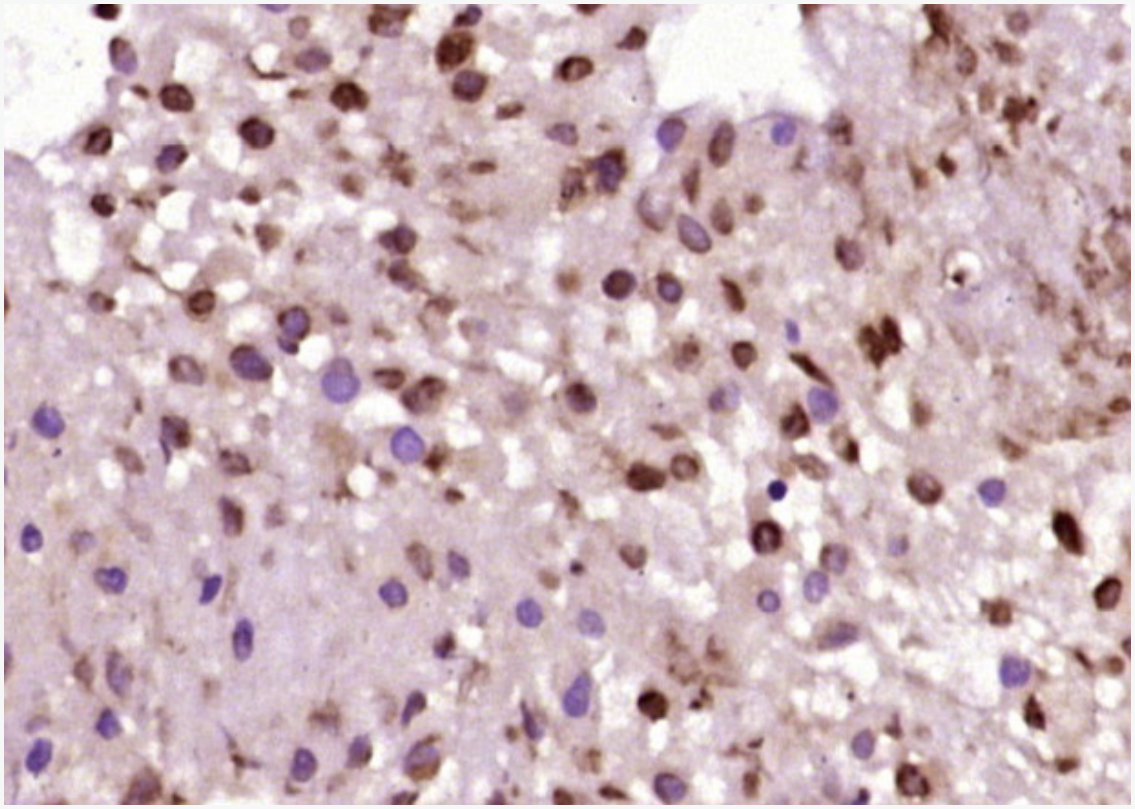

Paraformaldehyde-fixed, paraffin embedded (human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (JNK1+JNK2) Polyclonal Antibody, Unconjugated (SL10562R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.