



## Rabbit Anti-JNK3/MAPK10 antibody

SL2997R

<b>Product Name:</b>	JNK3/MAPK10
<b>Chinese Name:</b>	氨基末端激酶3抗体
<b>Alias:</b>	c Jun kinase 3; c-Jun N-terminal kinase 3; cJun N terminal kinase 3; FLJ12099; FLJ33785; JNK3 alpha protein kinase; JNK3A; MAP kinase 10; MAP kinase; MAP kinase p49 3F12; MAPK 10; Mapk10; MGC50974; mitogen activated protein kinase 10; Mitogen-activated protein kinase 10; MK10_HUMAN; p493F12; p54bSAPK; PRKM10; protein kinase mitogen activated 10; SAPK1b; Stress activated protein kinase 1b; stress activated protein kinase beta; Stress activated protein kinase JNK3; Stress-activated protein kinase JNK3.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Rabbit,
<b>Applications:</b>	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	53kDa
<b>Cellular localization:</b>	The nucleuscytoplasmicThe cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human JNK3/MAPK10:251-360/384
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	MAPK10 (JNK3) 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 protein is a neuron-specific form of c-Jun N-terminal kinases (JNKs). Through its phosphorylation and nuclear localization, this kinase plays regulatory roles in the signaling pathways of neuronal apoptosis. Beta-arrestin 2, a receptor-regulated MAP kinase scaffold protein, is found to interact with and stimulate the phosphorylation of this kinase by MAP kinase kinase 4 (MKK4). Cyclin-dependent kinase 5 (CDK5) can phosphorylate and inhibit the activity of this kinase, which may be important in preventing neuronal apoptosis. Four alternatively spliced transcript variants encoding distinct isoforms have been reported.

**Subunit:**

Interacts with MAPKBP1. 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 HDAC9. Interacts with ARRB2; the interaction enhances MAPK10 activation by MAP3K5.

**Subcellular Location:**

Cytoplasm. Membrane; Lipid-anchor. Nucleus. Note=Palmitoylation regulates MAPK10 trafficking to cytoskeleton.

**Tissue Specificity:**

Specific to a subset of neurons in the nervous system. Present in the hippocampus and areas, cerebellum, striatum, brain stem, and weakly in the spinal cord. Very weak expression in testis and kidney.

**Similarity:**

Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MAP kinase subfamily. Contains 1 protein kinase domain.

**SWISS:**

P53779

**Gene ID:**

5602

**Database links:**

[Entrez Gene: 5602](#)Human

[Entrez Gene: 26414](#)Mouse

[Entrez Gene: 25272](#)Rat

[Omim: 602897](#)Human

[SwissProt: P53779](#)Human

[SwissProt: Q61831](#)Mouse

[SwissProt: P49187](#)Rat

[Unigene: 125503](#)Human

[Unigene: 39253](#)Mouse

[Unigene: 472459](#)Mouse

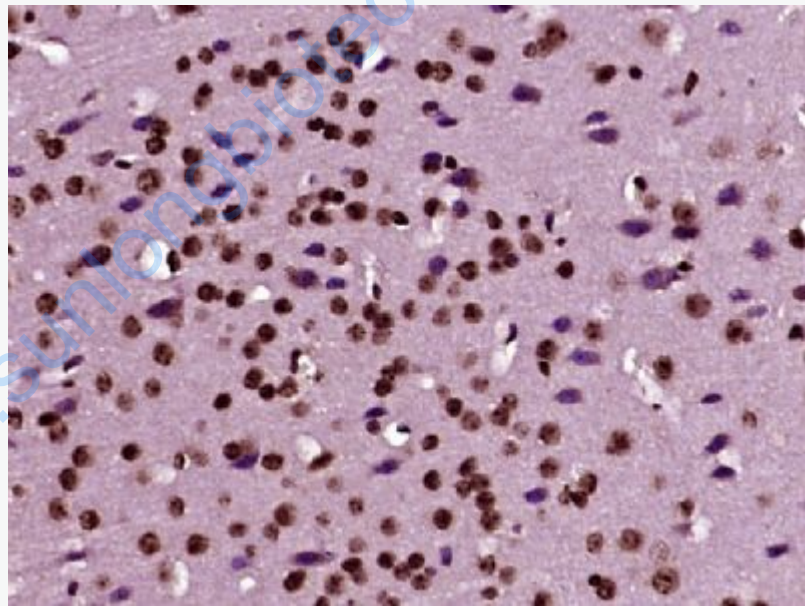
[Unigene: 9911](#)Rat

**Important Note:**

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

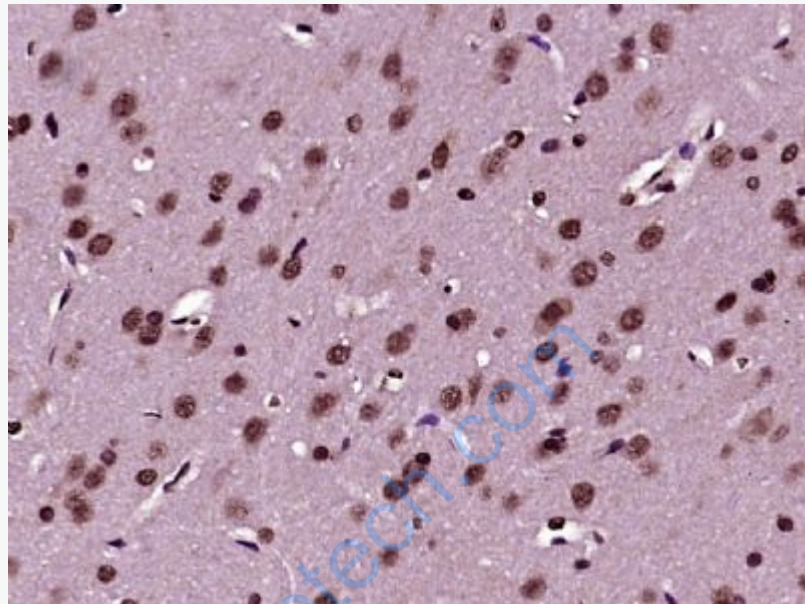
JNK有3种亚型, 其中JNK3特异性地分布在脑内, 在脑内神经元的损伤和凋亡中发挥着极其重要的作用。

**Picture:**



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 (JNK3) Polyclonal Antibody, Unconjugated (SL2997R) 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 (rat 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 (JNK3) Polyclonal Antibody, Unconjugated (SL2997R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.