



Rabbit Anti-MAPK6 antibody

SL12405R

Product Name:	MAPK6
Chinese Name:	丝裂原活化蛋白激酶6抗体
Alias:	ERK-3; ERK3; ERK 3; Extracellular signal regulated kinase 3; Extracellular signal regulated kinase p97; Extracellular signal-regulated kinase 3; MAP kinase 6; MAP kinase isoform p97; MAPK 6;Mitogen activated protein kinase 6; Mitogen-activated protein kinase 6; MK06_HUMAN; p97 MAPK; p97-MAPK; PRKM6; Protein kinase mitogen activated 5; Protein kinase mitogen activated 6.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	ELISA=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:	83kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human MAPK6/ERK3:21-120/721
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:	Mitogen-activated protein kinase (MAPK) signaling pathways involve closely related MAP kinases, including extracellular-signal-related kinase 3 (ERK 3, also designated PRKM6 and p97MAPK). Serum, growth factors and phorbol esters can initiate ERK 3

signaling pathways. Despite lacking a definitive nuclear localization sequence, ERK 3 constitutively localizes to the nucleus upon activation. p38 pathway activation-dependent upregulation of ERK 3 is independent of the status of p53, Bcl-2 and caspase-3 during cell stress and damage induced by proteasome inhibition, suggesting ERK 3 in part mediates intracellular defense or cell rescue. The human ERK 3 gene maps to chromosome 15q21.2 and encodes a 721 amino acid protein.

Function:

Phosphorylates microtubule-associated protein 2 (MAP2). May promote entry in the cell cycle.

Subunit:

Heterodimer with ERK4/MAPK4. Interacts with (via FRIEDE motif) MAPKAPK5 (By similarity). Interacts with UBE3A; this interaction may be indirect and mediated by HERC2, possibly via HERC2 interaction with NEURL4.

Subcellular Location:

Cytoplasm (By similarity). Nucleus (By similarity). Note=Translocates to the cytoplasm following interaction with MAPKAPK5 (By similarity).

Tissue Specificity:

Highest expression in the skeletal muscle, followed by the brain. Also found in heart, placenta, lung, liver, pancreas, kidney and skin fibroblasts.

Post-translational modifications:

Dually phosphorylated on Thr-626 and Tyr-628, 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:

Q16659

Gene ID:

5597

Database links:

[Entrez Gene: 5597](#) Human

[Entrez Gene: 50772](#) Mouse

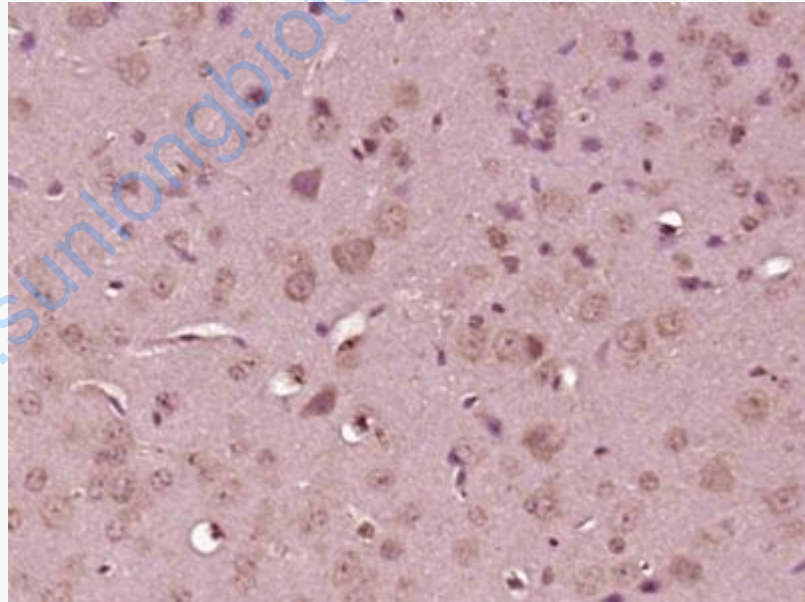
[Entrez Gene: 58840](#) Rat

[Omin: 602904](#) Human
[SwissProt: Q16659](#) Human
[SwissProt: Q61532](#) Mouse
[SwissProt: P27704](#) Rat
[Unigene: 411847](#) Human
[Unigene: 480076](#) Mouse
[Unigene: 88457](#) Rat

Important Note:

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

Picture:



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); 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 (MAPK6) Polyclonal Antibody, Unconjugated (SL12405R) 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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