



Rabbit Anti-MAPKAP1/SIN1 antibody

SL17496R

Product Name:	MAPKAP1/SIN1
Chinese Name:	丝裂原活化蛋白激酶相关蛋白1抗体
Alias:	MAPKAP 1; MAPKAP1; MEKK2 interacting protein 1; MGC2745; MIP 1; MIP1; Mitogen activated protein kinase associated protein 1; Mitogen-activated protein kinase 2-associated protein 1; mSIN1; OTTHUMP00000064207; Ras inhibitor MGC2745; SAPK interacting protein 1; SAPK-interacting protein 1; SIN 1; SIN1_HUMAN; SIN1b; SIN1g; Stress activated map kinase interacting protein 1; Stress activated protein kinase interacting 1; Stress-activated map kinase-interacting protein 1; Target of rapamycin complex 2 subunit MAPKAP1; TORC2 subunit MAPKAP1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep,Rhesus monkey, Gorilla, Orangutan, Platypus
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:	30/50/65 (59)kDa
Cellular localization:	The nucleuscytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human MAPKAP1/SIN1:61-160/522
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

This gene encodes a protein that is highly similar to the yeast SIN1 protein, a stress-activated protein kinase. Alternatively spliced transcript variants encoding distinct isoforms have been described. Alternate polyadenylation sites as well as alternate 3' UTRs have been identified for transcripts of this gene. [provided by RefSeq, Jul 2008]

Function:

Subunit of mTORC2, which regulates cell growth and survival in response to hormonal signals. mTORC2 is activated by growth factors, but, in contrast to mTORC1, seems to be nutrient-insensitive. mTORC2 seems to function upstream of Rho GTPases to regulate the actin cytoskeleton, probably by activating one or more Rho-type guanine nucleotide exchange factors. mTORC2 promotes the serum-induced formation of stress-fibers or F-actin. mTORC2 plays a critical role in AKT1 'Ser-473' phosphorylation, which may facilitate the phosphorylation of the activation loop of AKT1 on 'Thr-308' by PDK1 which is a prerequisite for full activation. mTORC2 regulates the phosphorylation of SGK1 at 'Ser-422'. mTORC2 also modulates the phosphorylation of PRKCA on 'Ser-657'. Within mTORC2, MAPKAP1 is required for complex formation and mTORC2 kinase activity. MAPKAP1 inhibits MAP3K2 by preventing its dimerization and autophosphorylation. Inhibits HRAS and KRAS signaling. Enhances osmotic stress-induced phosphorylation of ATF2 and ATF2-mediated transcription.

Subcellular Location:

Cell membrane. Cytoplasmic vesicle. Nucleus.

Tissue Specificity:

Ubiquitously expressed, with highest levels in heart and skeletal muscle.

Similarity:

Belongs to the SIN1 family.

SWISS:

Q9BPZ7

Gene ID:

79109

Database links:

[Entrez Gene: 395627](#) Chicken

[Entrez Gene: 79109](#) Human

[Entrez Gene: 227743](#) Mouse

[Entrez Gene: 296648](#) Rat

[Omim: 610558](#) Human

Product Detail:

[SwissProt: Q9W6S3](#) Chicken

[SwissProt: Q9BPZ7](#) Human

[SwissProt: Q8BKH7](#) Mouse

[SwissProt: Q6AYF1](#) Rat

[Unigene: 495138](#) Human

[Unigene: 270866](#) Mouse

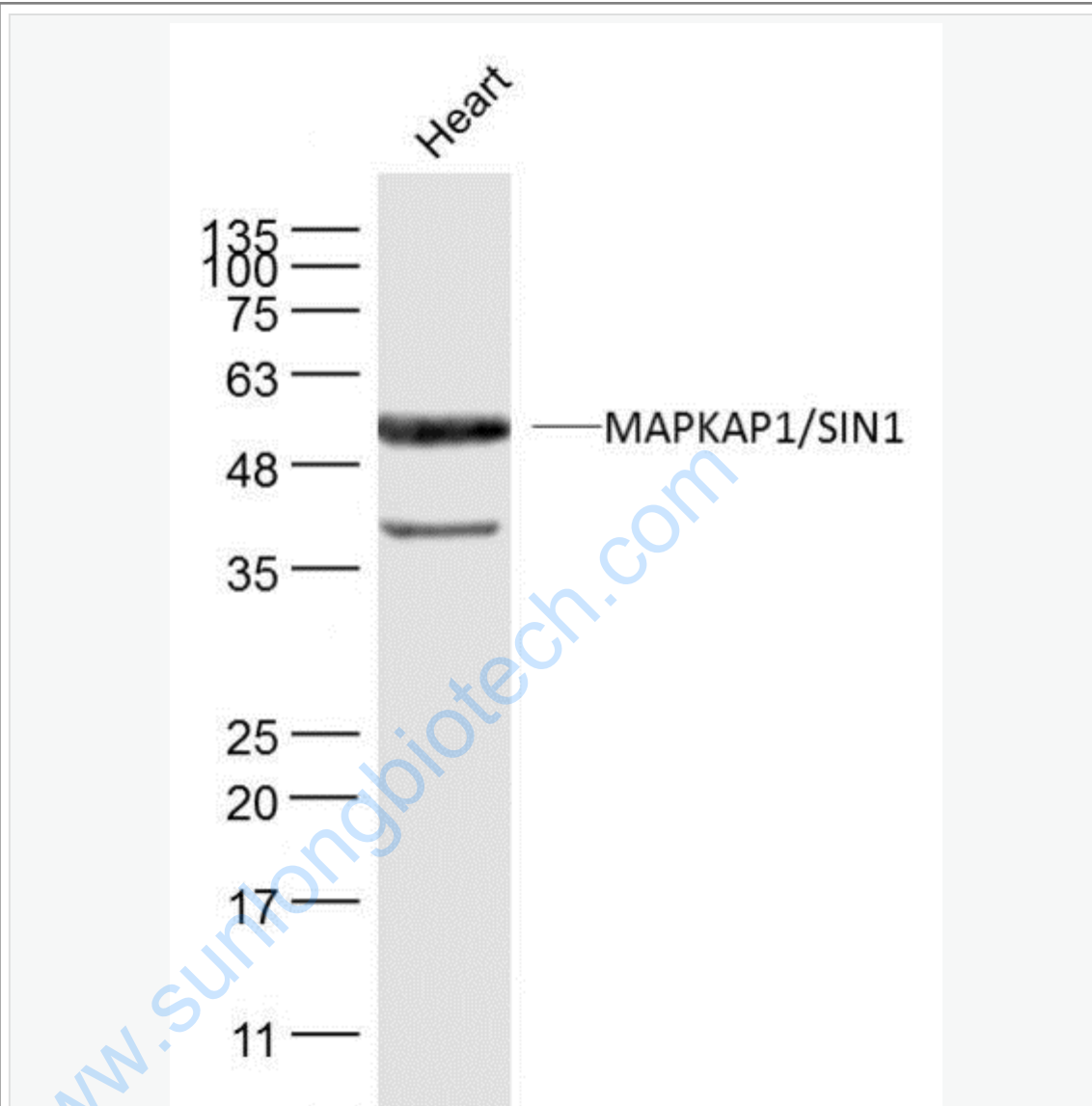
[Unigene: 105886](#) Rat

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:

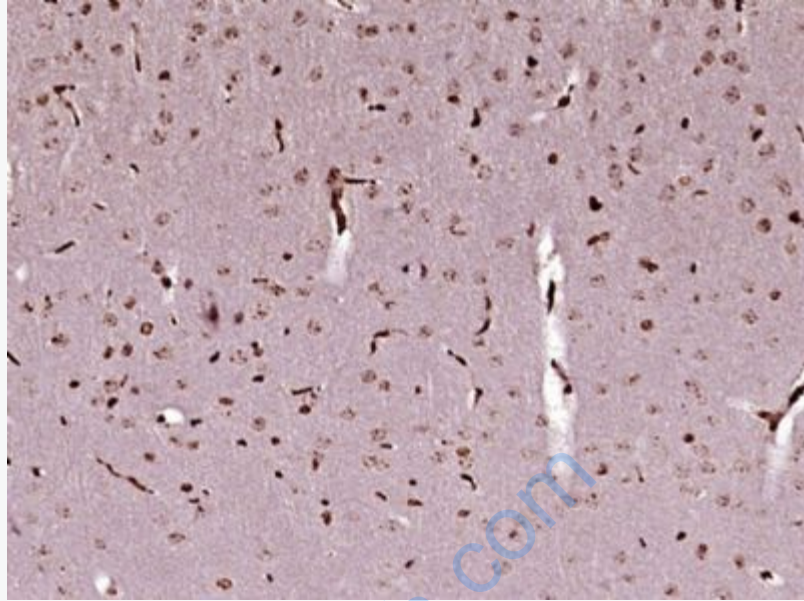
Heart (Mouse)Lysate at 40 ug

Primary: Anti-MAPKAP1/SIN1 (SL17496R) at 1/300 dilution

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

Predicted band size: 30/50/65 kD

Observed band size: 50 kD



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 (MAPKAP1/SIN1) Polyclonal Antibody, Unconjugated (SL17496R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.