



Rabbit Anti-Phospho-MARCKS (Ser170) antibody

SL5500R

Product Name:	Phospho-MARCKS (Ser170)
Chinese Name:	磷酸化丙氨酸蛋白激酶C底物Marcks抗体
Alias:	MARCKS (Phospho Ser170); MARCKS (Phospho S170); 80 kDa protein; 80K L; 80K L protein; 80K-L protein; 80KL; 81 kDa protein, light chain; light chain; MACS; MARCKS; MARCS; MARCS_HUMAN; MGC52672; myristoylated alanine rich C kinase substrate; Myristoylated alanine rich protein kinase C substrate (MARCKS, 80K L); Myristoylated alanine rich protein kinase C substrate; Myristoylated alanine-rich C-kinase substrate; Phosphomyristin; PKCSL; PRKCSL; protein kinase C substrate 80 kDa protein light chain; Protein kinase C substrate.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Cow,
Applications:	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.
Molecular weight:	31kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated Synthesised phosphopeptide derived from human MARCKS around the phosphorylation site of Ser170:GF(p-S)FK
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](#)

MARCKS, (Myristoylated Alanine-Rich C Kinase Substrate), is a member of a family of calmodulin binding proteins and is a major substrate for phosphorylation by protein kinase C (PKC). The phosphorylation of Ser152/156 can be used as a measure of PKC activation. Phosphorylation of Ser152/156 modulates the binding of MARCKS to calmodulin.

Function:

MARCKS is the most prominent cellular substrate for protein kinase C. This protein binds calmodulin, actin, and synapsin. MARCKS is a filamentous (F) actin cross-linking protein.

Subcellular Location:

Cytoplasm, cytoskeleton (Probable). Membrane; Lipid-anchor.

Post-translational modifications:

Phosphorylation by PKC displaces MARCKS from the membrane. It also inhibits the F-actin cross-linking activity.

Similarity:

Belongs to the MARCKS family.

SWISS:

P29966

Gene ID:

4082

Database links:

[Entrez Gene: 4082](#)Human

[Entrez Gene: 17118](#)Mouse

[Entrez Gene: 25603](#)Rat

[Oimim: 177061](#)Human

[SwissProt: P29966](#)Human

[SwissProt: P26645](#)Mouse

[SwissProt: P30009](#)Rat

[Unigene: 519909](#)Human

[Unigene: 712721](#)Human

[Unigene: 30059](#)Mouse

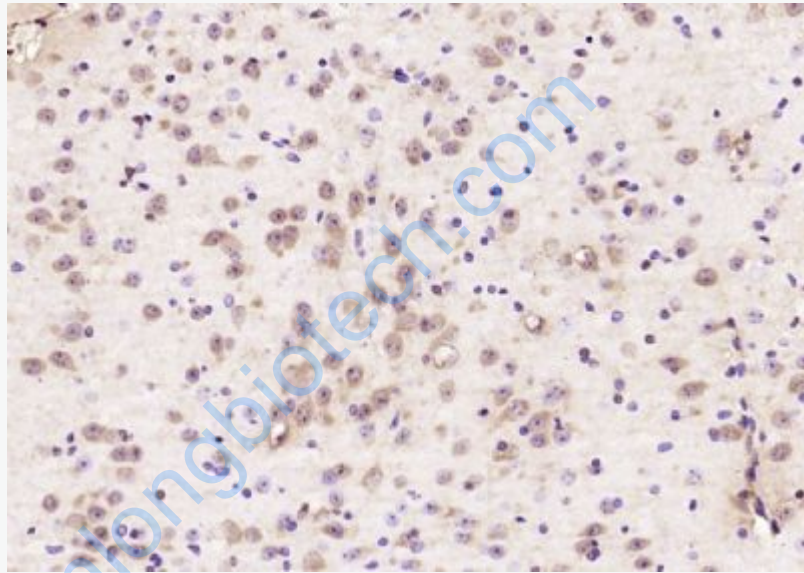
Product Detail:

[Unigene: 9560Rat](#)

Important Note:

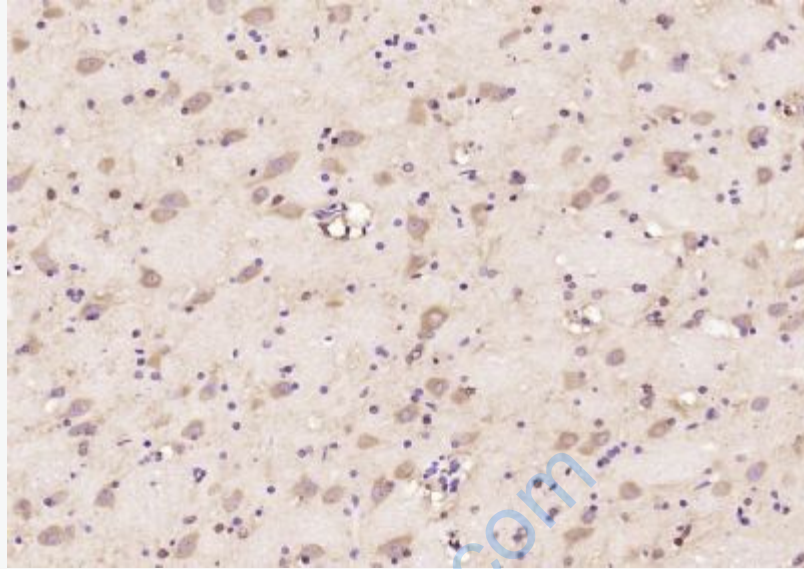
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MARCKS是一种分子量为32kDa的膜内蛋白,在组织中广泛表达,但主要高表达在脑内的轴突、小直径的树突和树突棘.



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 (Phospho-MARCKS (Ser170)) Polyclonal Antibody, Unconjugated (SL5500R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat 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 (Phospho-MARCKS (Ser170)) Polyclonal Antibody, Unconjugated (SL5500R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.