



## Rabbit Anti-PCP4 antibody

SL11326R

<b>Product Name:</b>	PCP4
<b>Chinese Name:</b>	脑特异性多肽蛋白19抗体
<b>Alias:</b>	Brain specific antigen PCP 4; Brain specific polypeptide PEP 19; Brain specific polypeptide PEP19; PEP19; Purkinje cell protein 4; PCP-4; PCP4_HUMAN; PEP-19.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Cow,Sheep,
<b>Applications:</b>	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.
<b>Molecular weight:</b>	7kDa
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human PCP4:21-62/62
<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>	PCP-4 is a calmodulin (CaM) regulatory protein that is highly expressed in neuronal cells. Through its IQ motif, PCP-4 mediates both the calcium-dependent binding properties of CaM and the rates of association and dissociation of calcium from the C-terminal domain of CaM. The IQ motif contains a serine residue which can be phosphorylated by all isoforms of protein kinase C (PKC). PCP-4 is implicated in uterine leiomyomas, as well as in neurodegenerative disorders such as Alzheimer's disease and Huntington's disease. Additionally, overexpression of PCP-4 is thought to

play a role in cerebellar hypoplasia, a key feature of Down syndrome.

**Function:**

Probable regulator of calmodulin signaling.

**Subunit:**

Binds to both calcium-free and calcium activated calmodulin, affinity for calcium-bound form is 50-fold greater.

**Similarity:**

Belongs to the PCP4 family.

Contains 1 IQ domain.

**SWISS:**

P48539

**Gene ID:**

5121

**Database links:**

[Entrez Gene: 5121](#) Human

[Entrez Gene: 18546](#) Mouse

[Entrez Gene: 25510](#) Rat

[Omim: 601629](#) Human

[SwissProt: P48539](#) Human

[SwissProt: P63054](#) Mouse

[SwissProt: P63055](#) Rat

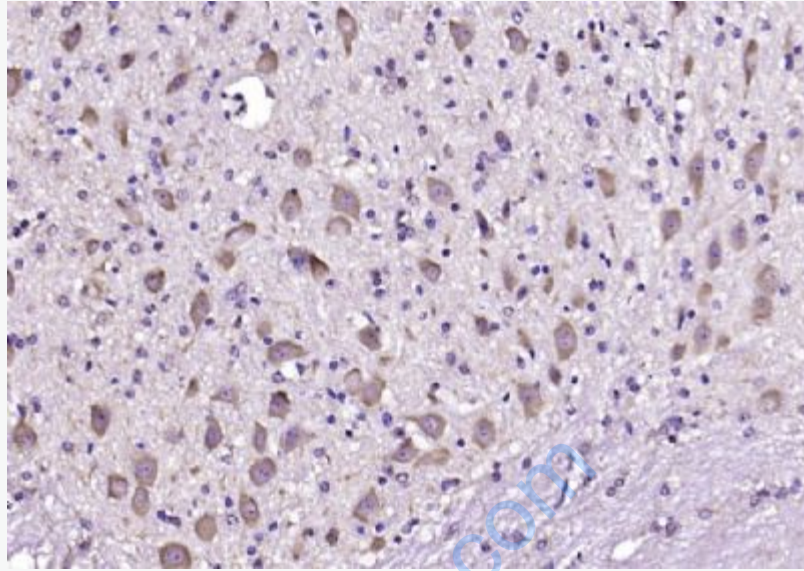
[Unigene: 80296](#) Human

[Unigene: 5023](#) Mouse

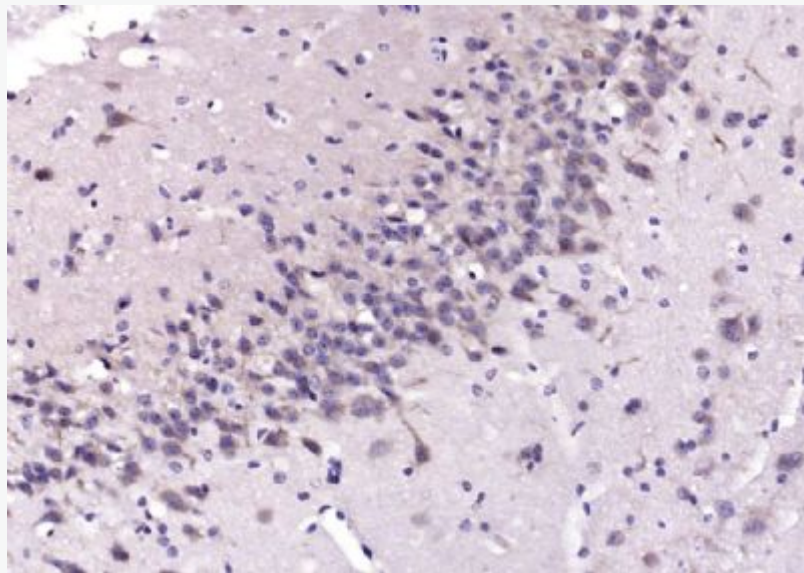
[Unigene: 9736](#) Rat

**Important Note:**

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

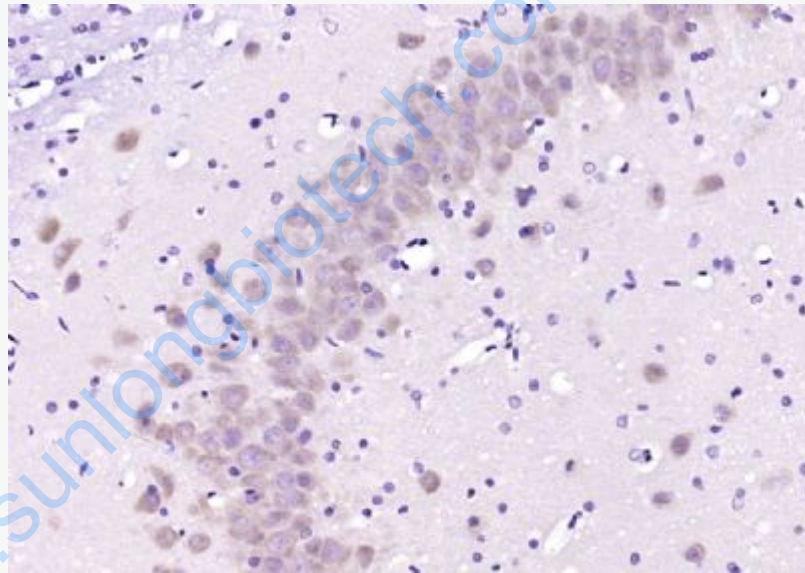


Paraformaldehyde-fixed, paraffin embedded (mouse cerebellum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PCP4) Polyclonal Antibody, Unconjugated (SL11326R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



**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 (PCP4) Polyclonal Antibody, Unconjugated (SL11326R) 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 (PCP4) Polyclonal Antibody, Unconjugated (SL11326R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.