



Rabbit Anti-PCMT1 antibody

SL6211R

Product Name:	PCMT1
Chinese Name:	天门冬氨酸甲基转移酶PCMT抗体
Alias:	L isoaspartyl protein carboxyl methyltransferase; L isoaspartyl/D aspartyl methyltransferase; PCMT 1; PIMT; Protein beta aspartate methyltransferase; Protein L isoaspartate (D aspartate) O methyltransferase; PIMT_HUMAN; Protein L isoaspartyl/D aspartyl methyltransferase.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,
Applications:	WB=1:500-2000ELISA=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:	25kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human PCMT1:165-227/227
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:	PCMT1 (Protein-L-isoaspartate (D-aspartate) O-methyltransferase) plays a role in the repair and/or degradation of damaged proteins by initiating the conversion of abnormal D-aspartyl and L-isoaspartyl residues to the normal L-aspartyl form. It catalyzes the methyl esterification of L-isoaspartyl and D-aspartyl residues in peptides and proteins

that result from spontaneous deamidation, isomerization, and racemization of normal L-aspartyl and L-asparaginyl residues.

Function:

Catalyzes the methyl esterification of L-isoaspartyl and D-aspartyl residues in peptides and proteins that result from spontaneous decomposition of normal L-aspartyl and L-asparaginyl residues. It plays a role in the repair and/or degradation of damaged proteins. Acts on microtubule-associated protein 2, calreticulin, clathrin light chains a and b, Ubiquitin carboxyl-terminal hydrolase isozyme L1, phosphatidylethanolamine-binding protein 1, stathmin, beta-synuclein and alpha-synuclein (By similarity).

Subunit:

Monomer.

Subcellular Location:

Cytoplasm.

Similarity:

Belongs to the methyltransferase superfamily. L-isoaspartyl/D-aspartyl protein methyltransferase family.

SWISS:

P22061

Gene ID:

5110

Database links:

[Entrez Gene: 5110](#)Human

[Entrez Gene: 25604](#)Rat

[Omim: 176851](#)Human

[SwissProt: P22061](#)Human

[SwissProt: P23506](#)Mouse

[SwissProt: P22062](#)Rat

[Unigene: 279257](#)Human

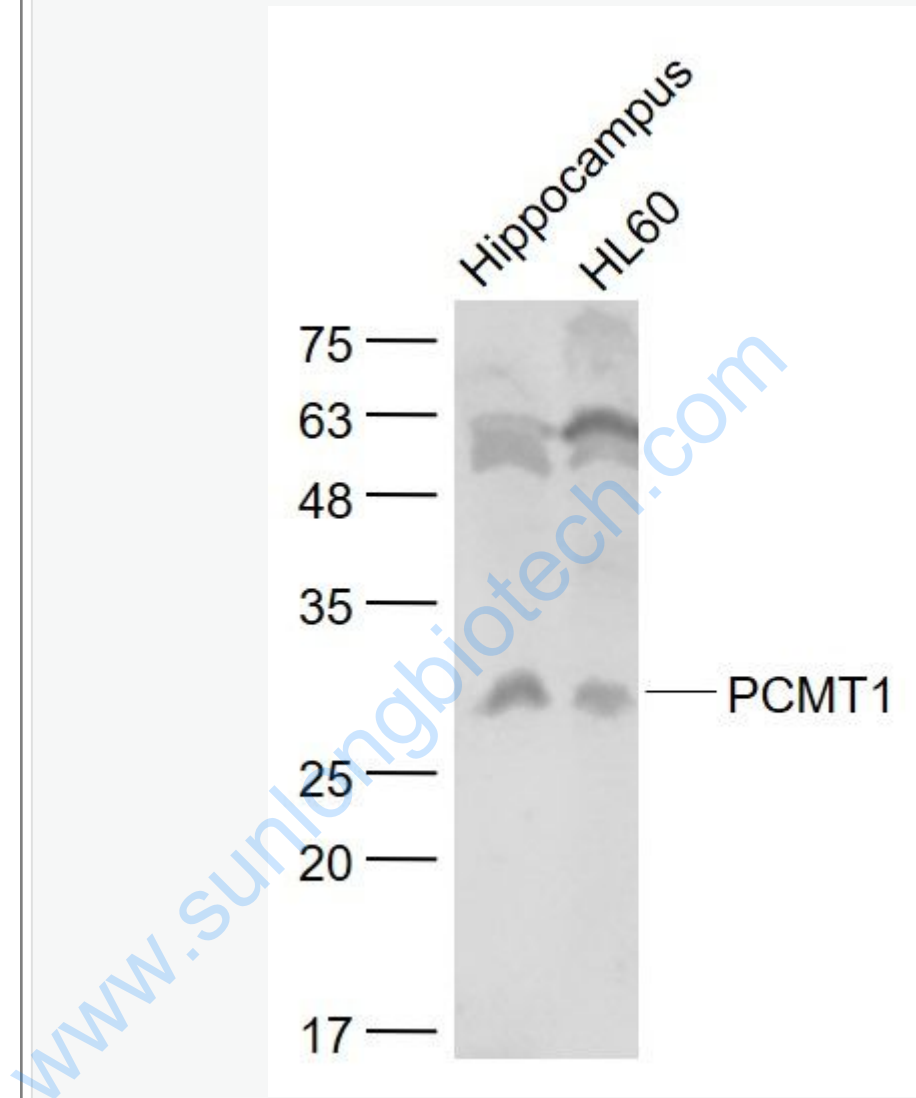
[Unigene: 258431](#)Mouse

[Unigene: 86985](#)Rat

Important Note:

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

Picture:



Sample:

Hippocampus (Mouse) Lysate at 40 ug

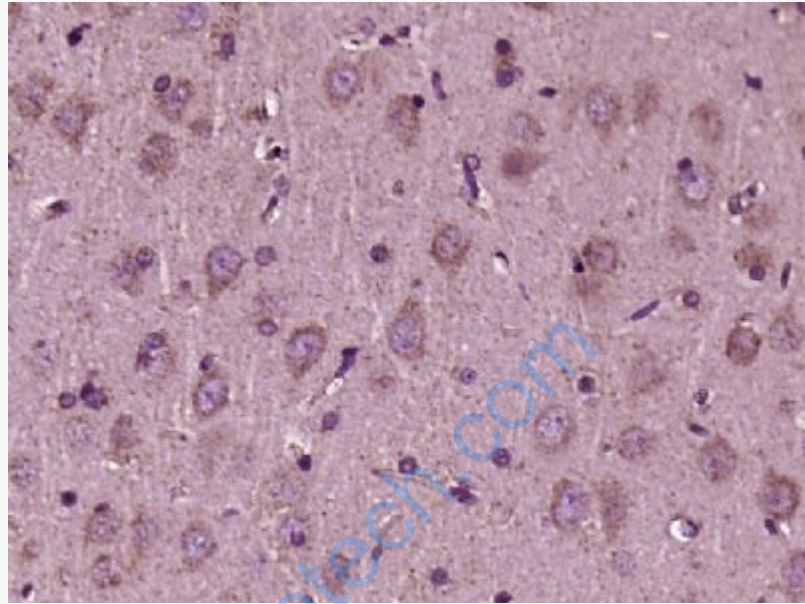
HL60(Human) Cell Lysate at 30 ug

Primary: Anti- PCMT1 (SL6211R) at 1/1000 dilution

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

Predicted band size: 25 kD

Observed band size: 28 kD



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 (PCMT1) Polyclonal Antibody, Unconjugated (SL6211R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.