

# PCMT1 Antibody (N-Term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP22160a

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">P22061</a>
<b>Other Accession</b>	<a href="#">P15246</a> , <a href="#">Q4R5H0</a> , <a href="#">P23506</a> , <a href="#">P80895</a> , <a href="#">Q5RA89</a> , <a href="#">P22062</a>
<b>Reactivity</b>	Human, Rat, Mouse
<b>Predicted</b>	Bovine, Mouse, Pig, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB56325
<b>Calculated MW</b>	24636

## Additional Information

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<b>Gene ID</b>	5110
<b>Other Names</b>	Protein-L-isoaspartate(D-aspartate) O-methyltransferase, PIMT, 2.1.1.77, L-isoaspartyl protein carboxyl methyltransferase, Protein L-isoaspartyl/D-aspartyl methyltransferase, Protein-beta-aspartate methyltransferase, PCMT1
<b>Target/Specificity</b>	This PCMT1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 18-55 amino acids from human PCMT1.
<b>Dilution</b>	WB~~1:2000 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	PCMT1 Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	PCMT1
<b>Function</b>	Initiates the repair of damaged proteins by catalyzing methyl esterification

of L-isoaspartyl and D-aspartyl residues produced by spontaneous isomerization and racemization of L-aspartyl and L-asparaginyl residues in aging peptides and proteins (PubMed:[3167043](#), PubMed:[6469980](#)). Acts on EIF4EBP2, microtubule-associated protein 2, calreticulin, clathrin light chains a and b, Ubiquitin C-terminal hydrolase isozyme L1, phosphatidylethanolamine-binding protein 1, stathmin, beta-synuclein and alpha-synuclein (By similarity).

**Cellular Location** Cytoplasm, cytosol.

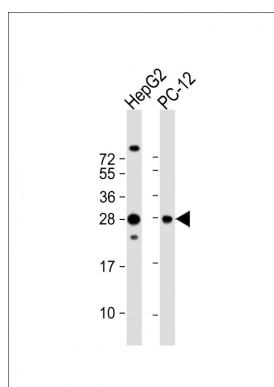
## Background

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).

## References

Ingrosso D., et al. J. Biol. Chem. 264:20131-20139(1989).  
Maclaren D.C., et al. Biochem. Biophys. Res. Commun. 185:277-283(1992).  
Takeda R., et al. J. Biochem. 117:683-685(1995).  
Shirasawa T., et al. Submitted (APR-1994) to the EMBL/GenBank/DDBJ databases.  
Ota T., et al. Nat. Genet. 36:40-45(2004).

## Images



All lanes : Anti-PCMT1 Antibody (N-Term) at 1:2000 dilution  
Lane 1: HepG2 whole cell lysate  
Lane 2: PC-12 whole cell lysate  
Lysates/proteins at 20 µg per lane.  
Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 25 kDa  
Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.