

PCMT1 Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22159c

Specification

PCMT1 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	P22061
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	24636

PCMT1 Antibody (Center) - Additional Information

Gene ID 5110

Other Names

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

Target/Specificity

This PCMT1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 93-126 amino acids from the Central region of human PCMT1.

Dilution

WB~~1:2000

E~~Use at an assay dependent concentration.

Format

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.

Storage

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.

Precautions

PCMT1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

PCMT1 Antibody (Center) - Protein Information

Name PCMT1

Function 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

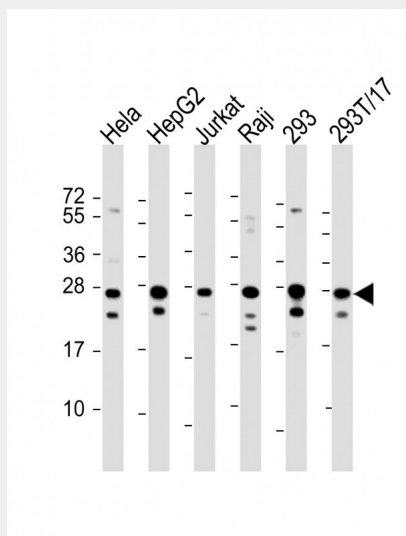
Cytoplasm, cytosol.

PCMT1 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PCMT1 Antibody (Center) - Images



All lanes : Anti-PCMT1 Antibody (Center) at 1:2000 dilution Lane 1: HeLa whole cell lysate Lane 2: HepG2 whole cell lysate Lane 3: Jurkat whole cell lysate Lane 4: Raji whole cell lysate Lane 5: 293 whole cell lysate Lane 6: 293T/17 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.

PCMT1 Antibody (Center) - 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).

PCMT1 Antibody (Center) - 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).