10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

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

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).

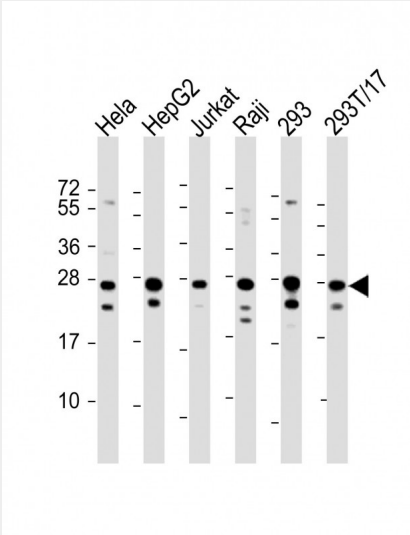
Cellular Location
Cytoplasm, cytosol.

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 Cytomety
- 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).

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Maclaren D.C.,et al.Biochem. Biophys. Res. Commun. 185:277-283(1992).
Takeda R.,et al.J. Biochem. 117:683-685(1995).
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Ota T.,et al.Nat. Genet. 36:40-45(2004).