

PCMT1 Antibody (aa10-227)
Rabbit Polyclonal Antibody
Catalog # ALS16209**Specification**

PCMT1 Antibody (aa10-227) - Product Information

Application	WB, ICC
Primary Accession	P22061
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	25kDa KDa

PCMT1 Antibody (aa10-227) - 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

Human PCMT1

Reconstitution & Storage

Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Precautions

PCMT1 Antibody (aa10-227) is for research use only and not for use in diagnostic or therapeutic procedures.

PCMT1 Antibody (aa10-227) - 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.

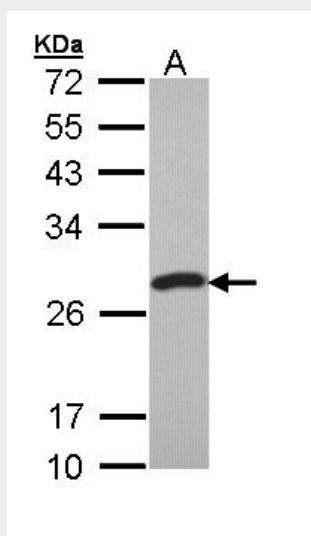
Volume

50 μ l

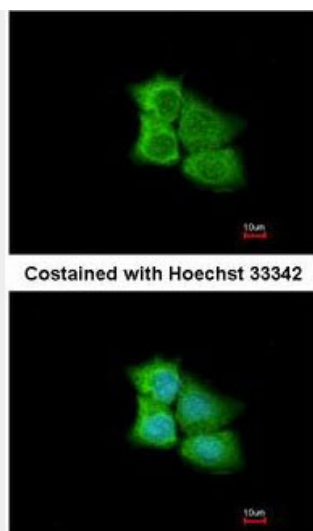
PCMT1 Antibody (aa10-227) - Protocols

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 (aa10-227) - Images

Sample (30 ug of whole cell lysate). A:293T. 12% SDS PAGE. PCMT1 antibody diluted at 1:1000.



Immunofluorescence of methanol-fixed A431 using PCMT1 antibody at 1:200 dilution.

PCMT1 Antibody (aa10-227) - 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 (aa10-227) - 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).