

ARG44459 anti-PCMT1 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes PCMT1
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	PCMT1
Species	Human
Immunogen	Human PCMT1 recombinant protein
Conjugation	Un-conjugated
Alternate Names	PCMT1; Protein-L-Isoaspartate (D-Aspartate) O-Methyltransferase; Protein-L-Isoaspartate(D-Aspartate) O-Methyltransferase; Protein L-Isoaspartyl/D-Aspartyl Methyltransferase; L-Isoaspartyl Protein Carboxyl Methyltransferase; Protein-Beta-Aspartate Methyltransferase; EC 2.1.1.77; PIMT; Epididymis Secretory Sperm Binding Protein

Application Instructions

Application table	Application	Dilution
	FACS	1-3 µg/1x10 ⁶
	ICC/IF	5 µg/ml
	IHC-P	2-5 µg/ml
	WB	0.25-0.5 µg/ml
Application Note	The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Affinity purified with Immunogen.
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

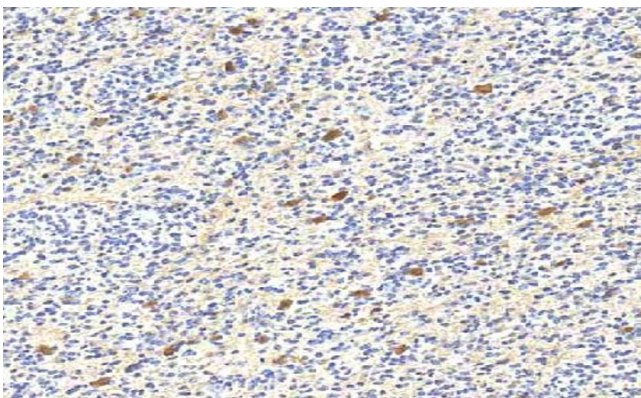
freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

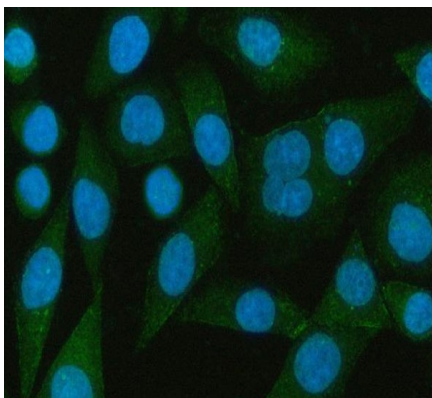
Gene Symbol	PCMT1
Gene Full Name	Protein-L-Isoaspartate (D-Aspartate) O-Methyltransferase
Background	This gene encodes a member of the type II class of protein carboxyl methyltransferase enzymes. The encoded enzyme plays a role in protein repair by recognizing and converting D-aspartyl and L-isoaspartyl residues resulting from spontaneous deamidation back to the normal L-aspartyl form. The encoded protein may play a protective role in the pathogenesis of Alzheimer's disease, and single nucleotide polymorphisms in this gene have been associated with spina bifida and premature ovarian failure. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.
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 .
Calculated Mw	25 kDa
PTM	Acetylation
Cellular Localization	Cytoplasm

Images



ARG44459 anti-PCMT1 antibody IHC-P image

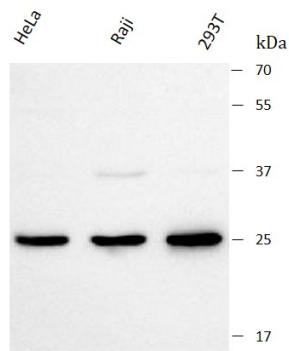
Immunohistochemistry: Human glioblastoma stained with ARG44459 anti-PCMT1 antibody at 2 µg/mL dilution.



ARG44459 anti-PCMT1 antibody ICC/IF image

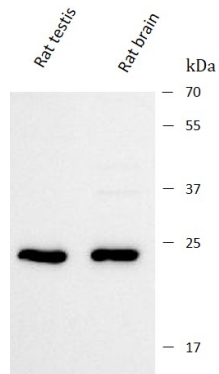
Immunofluorescence: SiHa stained with ARG44459 anti-PCMT1 antibody at 5 µg/mL dilution.

ARG44459 anti-PCMT1 antibody WB image



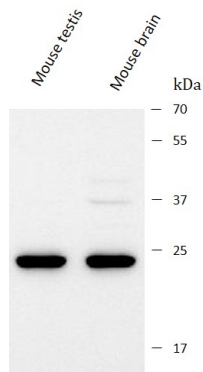
Western blot: HeLa, Raji and 293T stained with ARG44459 anti-PCMT1 antibody at 0.5 $\mu\text{g/mL}$ dilution.

ARG44459 anti-PCMT1 antibody WB image



Western blot: Rat testis and Rat brain stained with ARG44459 anti-PCMT1 antibody at 0.5 $\mu\text{g/mL}$ dilution.

ARG44459 anti-PCMT1 antibody WB image



Western blot: Mouse testis and Mouse brain stained with ARG44459 anti-PCMT1 antibody at 0.5 $\mu\text{g/mL}$ dilution.