10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PRMT8 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1219b

Product Information

Application	WB, E
Primary Accession	Q9NR22
Other Accession	Q6PAK3
Reactivity	Human, Rat, Mouse
Predicted	Mouse, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB13015
Calculated MW	45291
Antigen Region	344-373

Additional Information

Gene ID	56341
Other Names	Protein arginine N-methyltransferase 8, 211-, Heterogeneous nuclear ribonucleoprotein methyltransferase-like protein 4, PRMT8, HRMT1L3, HRMT1L4
Target/Specificity	This PRMT8 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 344-373 amino acids from the C-terminal region of human PRMT8.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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	PRMT8 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PRMT8 (HGNC:5188)
Synonyms	HRMT1L3, HRMT1L4

Function	S-adenosyl-L-methionine-dependent and membrane-associated arginine methyltransferase that can both catalyze the formation of omega-N monomethylarginine (MMA) and asymmetrical dimethylarginine (aDMA) in proteins such as NIFK, myelin basic protein, histone H4, H2A and H2A/H2B dimer (PubMed:16051612, PubMed:17925405, PubMed:26529540, PubMed:26876602). Able to mono- and dimethylate EWS protein; however its precise role toward EWS remains unclear as it still interacts with fully methylated EWS (PubMed:18320585).
Cellular Location	Cell membrane; Lipid-anchor; Cytoplasmic side
Tissue Location	Brain-specific..

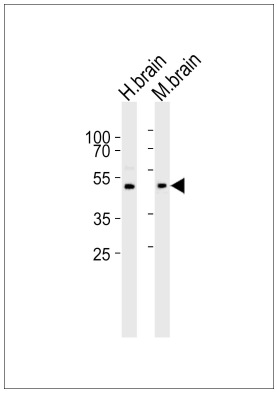
Background

Protein arginine methylation plays a role in signal transduction, RNA processing, transcriptional regulation, and DNA repair. PRMT8, a protein arginine N-methyltransferase most closely related to PRMT1, methylates the guanidino nitrogens of arginyl residues in some proteins. This protein associates with the plasma membrane following myristoylation and exhibits a brain-specific expression pattern, making it unique within this family of enzymes.

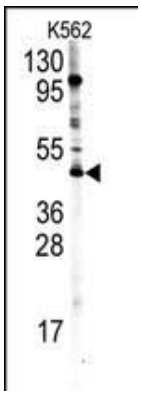
References

Lee,J., J. Biol. Chem. 280 (38), 32890-32896 (2005)

Images

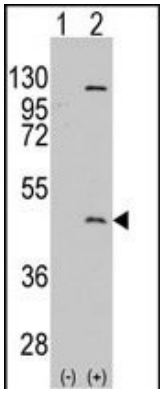


Western blot analysis of lysates from human brain, mouse brain tissue lysate (from left to right), using PRMT8 Antibody (C-term)(Cat. #AP1219b). AP1219b was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 35ug per lane.



Western blot analysis of PRMT8 Antibody (C-term) (Cat.#AP1219b) in K562 cell line lysates (35ug/lane). PRMT8 (arrow) was detected using the purified Pab.

Western blot analysis of PRMT8 (arrow) using rabbit polyclonal PRMT8 Antibody (C-term) (Cat.#AP1219b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the PRMT8 gene (Lane 2)



(Origene Technologies).

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