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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
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..

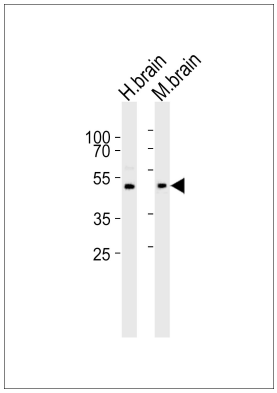
Background

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.

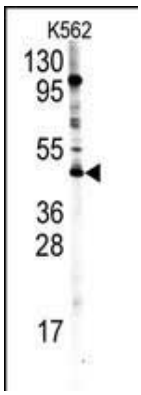
References

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

Images

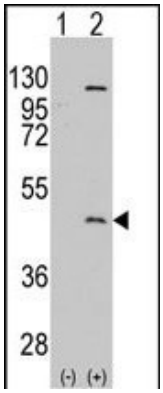


Western blot analysis of lysates from human brain, mouse brain tissue lysate (from left to right), using PRMT8 Antibody (C-term)(Cat. #AP1219b). AP1219b was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 35ug per lane.



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'.