

KD-Validated Anti-Protein arginine methyltransferase 7 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1273

Product Information

Application	WB, FC, ICC
Primary Accession	Q9NVM4
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB 2380
Calculated MW	78459
Gene Name	PRMT7
Aliases	PRMT7; Protein Arginine Methyltransferase 7; KIAA1933; [Myelin Basic Protein]-Arginine N-Methyltransferase PRMT7; Histone-Arginine N-Methyltransferase PRMT7; Protein Arginine N-Methyltransferase 7; FLJ10640; EC 2.1.1.321; EC 2.1.1.48; SBIDDS
Immunogen	A synthesized peptide derived from human PRMT7

Additional Information

Gene ID	54496
Other Names	Protein arginine N-methyltransferase 7, 2.1.1.321, Histone-arginine N-methyltransferase PRMT7, [Myelin basic protein]-arginine N-methyltransferase PRMT7, PRMT7, KIAA1933

Protein Information

Name	PRMT7
Synonyms	KIAA1933
Function	Arginine methyltransferase that can both catalyze the formation of omega-N monomethylarginine (MMA) and symmetrical dimethylarginine (sDMA), with a preference for the formation of MMA. Specifically mediates the symmetrical dimethylation of arginine residues in the small nuclear ribonucleoproteins Sm D1 (SNRPD1) and Sm D3 (SNRPD3); such methylation being required for the assembly and biogenesis of snRNP core particles. Specifically mediates the symmetric dimethylation of histone H4 'Arg-3' to form H4R3me2s. Plays a role in gene imprinting by being recruited by CTCFL at the H19 imprinted control region (ICR) and methylating histone H4 to form H4R3me2s, possibly leading to recruit DNA methyltransferases at these sites. May also play a role in embryonic stem cell (ESC) pluripotency. Also able to mediate the arginine methylation of histone H2A and myelin basic protein (MBP) in vitro; the

relevance of such results is however unclear in vivo.

Cellular Location

Cytoplasm, cytosol. Nucleus

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