



Anti-PRMT7 Antibody

Alternative Names: Protein arginine methyltransferase 7, Protein Arginine Methyltransferase 7, Myelin Basic Protein-Arginine N-Methyltransferase, Histone-Arginine N-Methyltransferase

Catalogue Number: AA17-10042-100ug

Size: 100 µg

Background Information

Protein arginine methyltransferase 7 (PRMT7) is a 692-amino acid member of the arginine N-methyltransferase family of proteins that transfers single methyl groups to arginine residues to generate monomethylarginines on histone proteins and other protein substrates through the transfer of methyl groups from S-adenosylmethionine (SAM). This enzyme plays a role in a wide range of biological processes, including neuronal differentiation, male germ line imprinting, small nuclear ribonucleoprotein biogenesis, and regulation of the Wnt signalling pathway. PRMT7 has predominantly cytoplasmic distribution.

PRMT7 differs from the other PRMTs as it contains both N- and C-terminal putative AdoMet-binding domains. The presence of both binding domains is required for PRMT7 enzymatic activity however only the N-terminal domain actually binds AdoMet. PRMT7 is the only PRMT capable of catalysing the formation of stable MMA. PRMT7 is capable of auto-methylation, and methylates substrates (such as histone H2B) in a RXR motif. PRMT7 is unable to methylate arginine residues H2AR3 and H4R3. Previous characterisation of these arginine residues as substrates for PRMT7 was most likely due to contamination of the PRMT7 preparation with PRMT5.

Product Information

Antibody Type:	Polyclonal	Host:	Rabbit
Isotype:	IgG	Species Reactivity:	Human
Immunogen:	Partial length recombinant human PRMT7 from the central region of the protein		
Format:	100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide.		
Storage Conditions:	6 months: 4°C. Long-term storage: -20°C. Avoid multiple freeze and thaw cycles.		
Applications:	WB WB: 2-4 µg/ml		

Additional Information

Subcellular location:	Nucleus, Cytosol	MW:	79kDa (Intended as a general guide and does not allow for all isoforms and species variations)
Gene ID	54496	Uniprot ID:	Q9NVM4