

Anti-PRMT5 Antibody [7-C2]

EM31103



Product Type:	Mouse monoclonal IgG2a, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IHC-P
Molecular Wt:	Predicted band size: 73 kDa
Clone number:	7-C2

Description: Protein arginine N-methyltransferase 5 is an enzyme that in humans is encoded by the PRMT5 gene. PRMT5 symmetrically dimethylates H2AR3, H4R3, H3R2, and H3R8 in vivo, all of which are linked to a range of transcriptional regulatory events. PRMT5 is a highly conserved arginine methyltransferase that translocated from the cytoplasm to the nucleus at embryonic day ~E8.5, and during preimplantation development at the ~4-cell stage. Model organisms have been used in the study of PRMT5 function. Male and female animals underwent a standardized phenotypic screen to determine the effects of deletion. Twenty five tests were carried out on mutant mice and two significant abnormalities were observed. No homozygous mutant embryos were identified during gestation, and therefore none survived until weaning. The remaining tests were carried out on heterozygous mutant adult mice but no further abnormalities were observed. A conditional allele of Prmt5 in the mouse limb shows that it is essential for maintaining a progenitor population, as conditional mutants have limb defects.

Immunogen: Synthetic peptide within Human PRMT5 aa 1-50 / 637.

Positive control: Human kidney tissue, human liver tissue, mouse kidney tissue, mouse liver tissue, rat kidney tissue, rat liver tissue.

Subcellular location: Nucleus, cytoplasm.

Database links: SwissProt: O14744 Human

Recommended Dilutions:

WB	1:1,000
IHC-P	1:100-1:200

Storage Buffer: 1*PBS (pH7.4), 0.2% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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Images

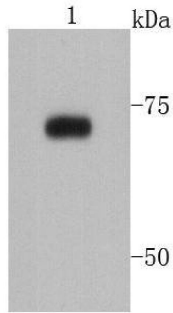


Fig1: Western blot analysis of PRMT5 on mouse kidney lysates using anti-PRMT5 antibody at 1/500 dilution.

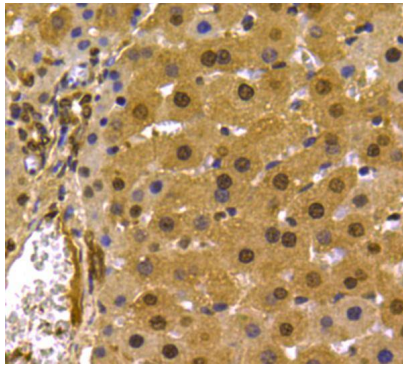


Fig2: Immunohistochemical analysis of paraffin-embedded rat liver tissue using anti-PRMT5 antibody. Counter stained with hematoxylin.

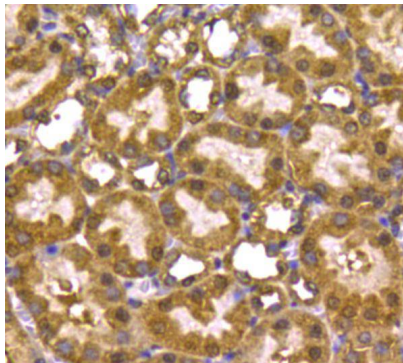


Fig3: Immunohistochemical analysis of paraffin-embedded rat kidney tissue using anti-PRMT5 antibody. Counter stained with hematoxylin.

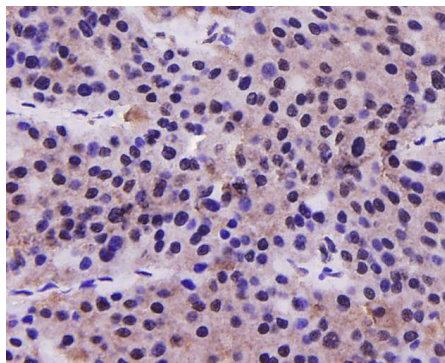


Fig4: Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-PRMT5 antibody. Counter stained with hematoxylin.

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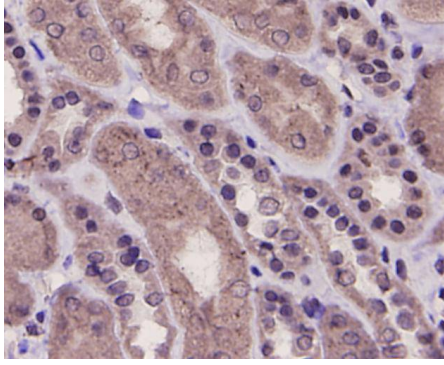


Fig5: Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-PRMT5 antibody. Counter stained with hematoxylin.

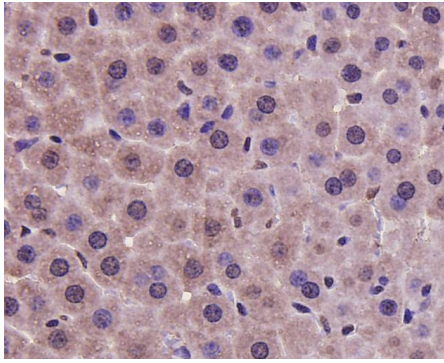


Fig6: Immunohistochemical analysis of paraffin-embedded mouse liver tissue using anti-PRMT5 antibody. Counter stained with hematoxylin.

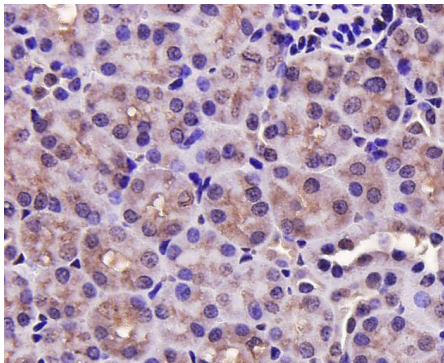


Fig7: Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-PRMT5 antibody. Counter stained with hematoxylin.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Branscombe, T.L., et al. 2001. PRMT5 (Janus kinase-binding protein 1) catalyzes the formation of symmetric dimethylarginine residues in proteins. *J. Biol. Chem.* 276: 32971-32976.
2. Rho, J., et al. 2001. PRMT5, which forms distinct homo-oligomers, is a member of the protein-arginine methyltransferase family. *J. Biol. Chem.* 276: 11393-11401.

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