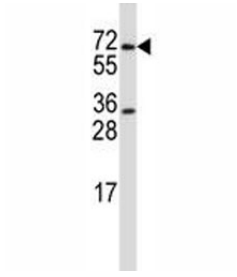
PRMT5 Antibody (F43243)

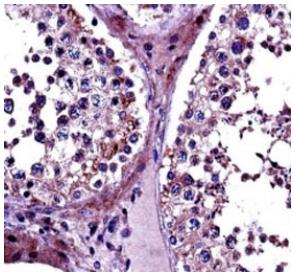
Catalog No.	Formulation	Size
F43243-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F43243-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Bovine, Primate
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	O14744
Applications	Western blot: 1:1000 IHC (Paraffin): 1:10-1:50
Limitations	This PRMT5 antibody is available for research use only.



PRMT5 antibody western blot analysis in HL-60 lysate. Expected molecular weight ~72kDa.



IHC testing of PRMT5 antibody and FFPE human testis tissue.

Description

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. Methylates SUPT5H. Mono-and dimethylates arginine residues of myelin basic protein (MBP) in vitro. Plays a role in the assembly of snRNP core particles. May play a role in cytokine-activated transduction pathways. Negatively regulates cyclin E1 promoter activity and cellular proliferation. May regulate the SUPT5H transcriptional elongation properties. May be part of a pathway that is connected to a chloride current, possibly through cytoskeletal rearrangement. Methylates histone H2A and H4 'Arg-3' during germ cell development. Methylates histone H3 'Arg-8', which may repress transcription. Methylates the Piwi proteins (PIWIL1, PIWIL2 and PIWIL4), methylation of Piwi proteins being required for the interaction with Tudor domain-containing proteins and subsequent localization to the meiotic nuage. Methylates RPS10.

Application Notes

Titration of the PRMT5 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 76-104 from the human protein was used as the immunogen for this PRMT5 antibody.

Storage

Aliquot the PRMT5 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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