

For Research Use Only

PRMT5 Recombinant antibody

Catalog Number: 82750-2-RR



Basic Information

Catalog Number: 82750-2-RR	GenBank Accession Number: BC025979	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 10419	CloneNo.: 250553B5
Source: Rabbit	UNIPROT ID: O14744	Recommended Dilutions: WB: 1:5000-1:50000 IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC: 1:200-1:800 IF/ICC: 1:50-1:500
Isotype: IgG	Full Name: protein arginine methyltransferase 5	
Immunogen Catalog Number: AG9736	Calculated MW: 637 aa, 73 kDa Observed MW: 68 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, IP, ELISA	Positive Controls:
Species Specificity: human, mouse, rat	WB : HeLa cells, HepG2 cells, HEK-293 cells, Raji cells, NIH/3T3 cells, mouse brain tissue, rat brain tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IP : mouse brain tissue,
	IHC : human colon cancer tissue,
	IF/ICC : HeLa cells,

Background Information

PRMT5 is a Type II enzyme that catalyzes arginine monomethylation and symmetric dimethylation (Rme1 and Rme2s). The many targets of PRMT5 include ribosomal proteins, the histone chaperone nucleoplamin, p53, and histones. PRMT5 is frequently observed in a complex with the cofactor, methylosome protein 50 (MEP50), which is required for PRMT5 activity. PRMT5 is upregulated in several human malignancies, including lymphomas, lung cancer, breast cancer and colorectal cancer.

Storage

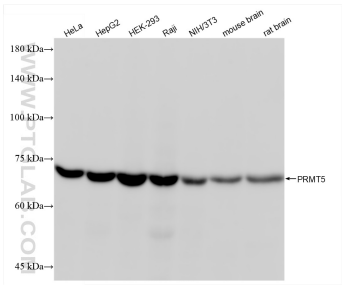
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

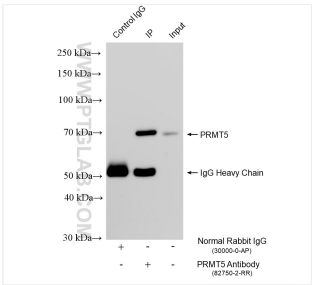
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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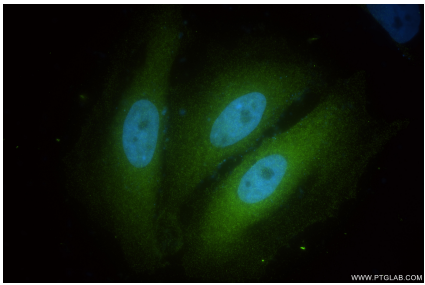
Selected Validation Data



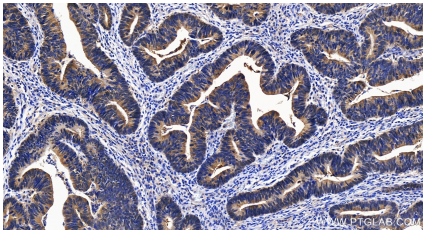
Various lysates were subjected to SDS PAGE followed by western blot with 82750-2-RR (PRMT5 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



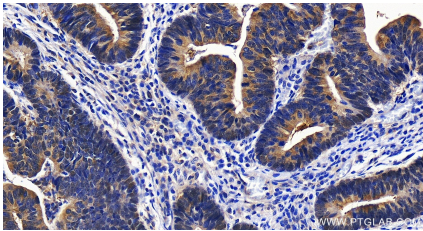
IP result of anti-PRMT5 (IP:82750-2-RR, 4ug; Detection:82750-2-RR 1:3000) with mouse brain tissue lysate 1720 ug.



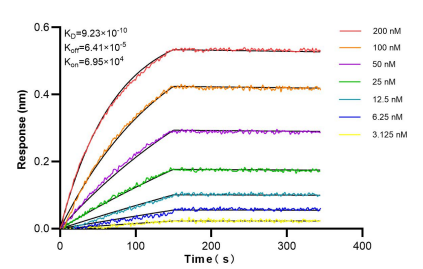
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using PRMT5 antibody (82750-2-RR, Clone: 250553B5) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 82750-2-RR (PRMT5 antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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Bi-layer interferometry (BLI) kinetic assays of 82750-2-RR against Human PRMT5 were performed. The affinity constant is 0.923 nM.