For Research Use Only

DNMT3A Recombinant antibody

Catalog Number:81474-6-RR



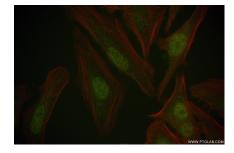
Basic Information	Catalog Number: 81474-6-RR	GenBank Accession Number: BC043617	Purification Method: Protein A purfication
	Size: 1000 µg/ml	GenelD (NCBI): 1788	CloneNo.: 242257A9
	Source: Rabbit	UNIPROT ID: Q9Y6K1	Recommended Dilutions: IF/ICC 1:200-1:800
	Isotype: IgG Immunogen Catalog Number: AG15111	Full Name: DNA (cytosine-5-)-methyltransferase 3 alpha	
		Calculated MW: 912 aa, 102 kDa	
Applications	Tested Applications: IF/ICC, FC (Intra), ELISA	Positive Controls:	
	Species Specificity: human	IF/ICC : H	eLa cells,
Background Information	DNA methylation in vertebrate animals is an epigenetic modification that is important for embryonic development, imprinting, and the inactivation of X chromosomes. DNA methylation is catalyzed by a family of DNA methyltransferases (DNMTs) that include the maintenance enzyme DNMT1 and de novo methyltransferases DNMT3a and DNMT3b. The overexpression of DNMT1, DNMT3a, and DNMT3b has been reported in various malignancies, including gastric, urothelial, and lung cancers, and may be related to tumorigenesis, tumor progression, and poor survival. Two isoforms of DNMT3a exist: the full-length DNMT3a, and the shorter form DNMT3a2 which lacks the N- terminal fragment. DNMT3a is expressed ubiquitously at low levels, while DNMT3a2 is specially expressed at high levels in embryonic stem cells and shows restricted expression in tissues known to undergo de novo methylation including testis and ovary. This antibody was raised against the N-terminal region of human DNMT3a.		
Storage	Storage: Store at -20°C. Stable for one year Storage Buffer: PBS with 0.02% sodium azide and Aliquoting is unnecessary for -20°	50% glycerol pH 7.3.	

 For technical support and original validation data for this product please contact:

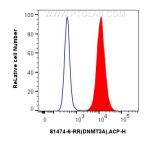
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

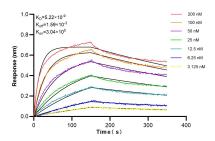
Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using DNMT3A antibody (81474-6-RR, Clone: 242257A9) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



1x10^6 HepG2 cells were intracellularly stained with 0.25 ug Dnmt3a Recombinant Antibody (81474-6-RR, Clone:242257A9) and APC-Conjugated Goat Anti-Rabbit 1gG(H+L)(red), or 0.25 ug Rabbit 1gG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



Biolayer interferometry (BLI) kinetic assays of 81474-6-RR against Human DNMT3A were performed. The affinity constant is 5.22 nM.