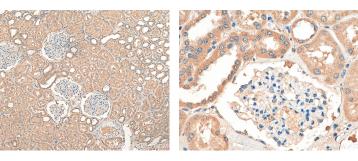
For Research Use Only

DNMT3A Polyclonal antibody Catalog Number:19366-1-AP Featured Product 9 Publications



Basic Information	Catalog Number: 19366-1-AP	GenBank Accession Number: BC043617	Purification Method: Antigen affinity purification	
	Size:	GeneID (NCBI):	Recommended Dilutions:	
	150ul, Concentration: 450 µg/ml by	1788	IHC 1:50-1:500	
	Nanodrop and 327 µg/ml by Bradford method using BSA as the standard;	UNIPROT ID: Q9Y6K1		
	Source:	Full Name:		
	Rabbit	DNA (cytosine-5-)-methyltransferase		
	Isotype: IgG	3 alpha		
	Immunogen Catalog Number:	Calculated MW: 912 aa, 102 kDa		
	AG7015			
Applications	Tested Applications:	Positive Cont	rols:	
	IHC, ELISA	IHC : human k	IHC : human kidney tissue, human lung cancer tissue,	
	Cited Applications: WB, IHC, IF	mouse heart t	issue, human heart tissue	
	Species Specificity: human, mouse			
	Cited Species: human, mouse, pig			
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0			
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. It is expected to detect the 120-130 kDa DNMT3a but not 72-100 kDa DNMT3a2.			
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Selected Validation Data



Immunohistochemical analysis of paraffinembedded human kidney tissue slide using 19366-1-AP (DNMT3A antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). Immunohistochemical analysis of paraffinembedded human kidney tissue slide using 19366-1-AP (DNMT3A antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).