For Research Use Only

DNMT3A Recombinant antibody

Catalog Number:81474-6-RR



Purification Method:

Basic Information

Catalog Number: GenBank Accession Number:

81474-6-RR BC043617 Protein A purfication

 Size:
 GeneID (NCBI):
 CloneNo.:

 100ul , Concentration: 1000 μg/ml by 1788
 242257A9

Nanodrop; UNIPROT ID: Recommended Dilutions:
Source: Q9Y6K1 IF/ICC 1:200-1:800

Rabbit Full Name:

Isotype: DNA (cytosine-5-)-methyltransferase

IgG 3 alpha

Immunogen Catalog Number:Calculated MW:AG15111912 aa, 102 kDa

Applications

Tested Applications: IF/ICC, FC (Intra), ELISA

Species Specificity:

humar

Positive Controls:

IF/ICC: HeLa 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 DNAT methylation is catalyzed by a family of DNAT 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 after shipment.

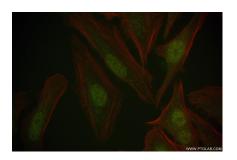
Storage Buffer

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

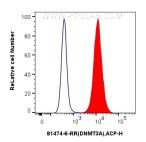
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

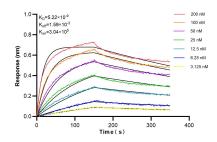
Selected Validation Data



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 IgG(H+L)(red), or 0.25 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



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