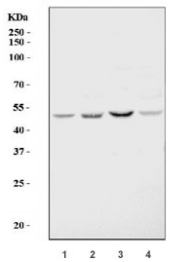
DNMT3L Antibody (RQ6940)

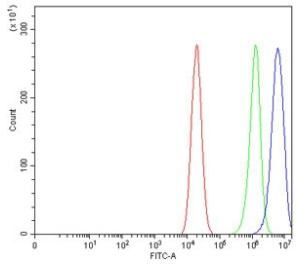
Catalog No.	Formulation	Size
RQ6940	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q9UJW3
Applications	Western blot: 0.5-1 ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This DNMT3L antibody is available for research use only.



Western blot testing of 1) rat testis, 2) rat kidney, 3) mouse testis and 4) mouse kidney tissue lysate with DNMT3L antibody. Predicted molecular weight ~49 kDa.



Flow cytometry testing of human Caco-2 cells with DNMT3L antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= DNMT3L antibody.

Description

DNA (cytosine-5)-methyltransferase 3-like is an enzyme that in humans is encoded by the DNMT3L gene. CpG methylation is an epigenetic modification that is important for embryonic development, imprinting, and X-chromosome inactivation. Studies in mice have demonstrated that DNA methylation is required for mammalian development. This gene encodes a nuclear protein with similarity to DNA methyltransferases, but is not thought to function as a DNA methyltransferase as it does not contain the amino acid residues necessary for methyltransferase activity. However, it does stimulate de novo methylation by DNA cytosine methyltransferase 3 alpha and is thought to be required for the establishment of maternal genomic imprints. This protein also mediates transcriptional repression through interaction with histone deacetylase 1. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

Application Notes

Optimal dilution of the DNMT3L antibody should be determined by the researcher.

Immunogen

Recombinant human DNMT3L protein (amino acids M1-L386) was used as the immunogen for the DNMT3L antibody.

Storage

After reconstitution, the DNMT3L antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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