

Product datasheet

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ARG56553 anti-Dnmt3a antibody

Package: 50 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes Dnmt3a

Tested Reactivity Hu

Tested Application WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name Dnmt3a
Species Human

Immunogen Recombinant protein of Human Dnmt3a.

Conjugation Un-conjugated

Alternate Names TBRS; DNMT3A2; M.HsalIIA; DNA (cytosine-5)-methyltransferase 3A; Dnmt3a; EC 2.1.1.37; DNA

methyltransferase HsallIA; DNA MTase HsallIA; M.HsallIA

Application Instructions

Application table	Application	Dilution
	WB	1:500 - 1:1000
Application Note	st The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	SW620	

Properties

Form Liquid

Purification Affinity purification with immunogen.

Buffer PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links GeneID: 1788 Human

Swiss-port # Q9Y6K1 Human

Gene Symbol DNMT3A

Gene Full Name DNA (cytosine-5-)-methyltransferase 3 alpha

Background 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 DNA methyltransferase that is thought to function in de novo methylation, rather than maintenance methylation. The protein localizes to the cytoplasm and nucleus and its expression is developmentally regulated. Alternative splicing results in

multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]

Function Required for genome-wide de novo methylation and is essential for the establishment of DNA

methylation patterns during development. DNA methylation is coordinated with methylation of histones. It modifies DNA in a non-processive manner and also methylates non-CpG sites. May preferentially methylate DNA linker between 2 nucleosomal cores and is inhibited by histone H1. Plays a role in paternal and maternal imprinting. Required for methylation of most imprinted loci in germ cells. Acts as a transcriptional corepressor for ZBTB18. Recruited to trimethylated 'Lys-36' of histone H3 (H3K36me3) sites. Can actively repress transcription through the recruitment of HDAC activity.

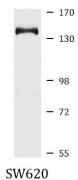
[UniProt]

Calculated Mw 102 kDa

PTM Sumoylated; sumoylation disrupts the ability to interact with histone deacetylases (HDAC1 and HDAC2)

and repress transcription.

Images



ARG56553 anti-Dnmt3a antibody WB image

Western blot: SW620 cell lysate stained with ARG56553 anti-Dnmt3a antibody.