Datasheet for ABIN3030748

anti-DNMT3A antibody (AA 463-497)

2 Images

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Overview

Quantity:	0.4 mL
Target:	DNMT3A
Binding Specificity:	AA 463-497
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DNMT3A antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	This Dnmt3a antibody was produced from a rabbit immunized with a KLH conjugated synthetic peptide between 463-497 amino acids from the central region of human Dnmt3a.
Isotype:	Ig Fraction
Cross-Reactivity (Details):	Expected species reactivity: Mouse, Rat, Chicken
Purification:	Antigen affinity purified

Target Details

Target:	DNMT3A
Alternative Name:	Dnmt3a (DNMT3A Products)
Background:	Required for genome-wide de novo methylation and is essential for the establishment of DNA

Target Details

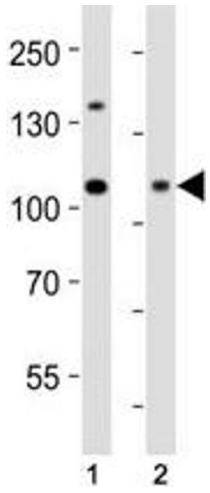
	methylation patterns during development. DNA methylation is coordinated with methylation of histones. It modifies DNA in a non-processive manner and also methylates non-CpG sites. May preferentially methylate DNA linker between 2 nucleosomal cores and is inhibited by histone H1. Plays a role in paternal 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:	Q9Y6K1

Application Details

Application Notes:	Titration of the Dnmt3a antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 1:1000
Restrictions:	For Research Use only

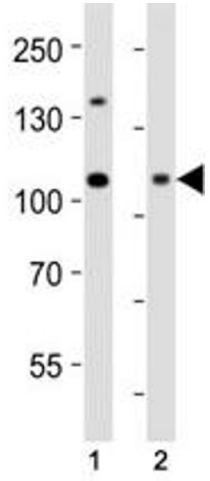
Handling

Format:	Liquid
Buffer:	In 1X PBS, pH 7.4, with 0.09 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Aliquot the Dnmt3a antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.



Western Blotting

Image 1. Western blot analysis of lysate from (1) HeLa cell line and (2) human skeletal muscle tissue using Dnmt3a antibody at 1:1000. Predicted molecular weight: 100-130 kDa



Western Blotting

Image 2. Western blot analysis of lysate from (1) HeLa cell line and (2) human skeletal muscle tissue using Dnmt3a antibody at 1:1000. Predicted molecular weight: 100-130 kDa