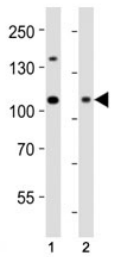
Dnmt3a Antibody (F53021)

Catalog No.	Formulation	Size
F53021-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F53021-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Mouse, Rat, Chicken
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	Q9Y6K1
Applications	Western Blot : 1:1000
Limitations	This Dnmt3a antibody is available for research use only.



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

Description

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.

This antibody can be compared with our DNMT3A Antibody (clone PCRP-DNMT3A-1E2) for consistent detection of DNMT3A across epigenetic regulation and DNA methylation studies.

Application Notes

Titration of the Dnmt3a antibody may be required due to differences in protocols and secondary/substrate sensitivity.

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.

Storage

Aliquot the Dnmt3a antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.