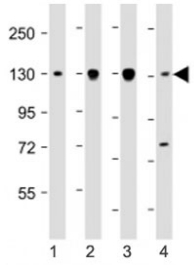
Dnmt3a Antibody [clone 1823CT281.43.36] (F54141)

Catalog No.	Formulation	Size
F54141-0.2ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.2 ml
F54141-0.05ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.05 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	1823CT281.43.36
Purity	Protein G purified
UniProt	Q9Y6K1
Applications	WB: 1:2000-1:4000
Limitations	This Dnmt3a antibody is available for research use only.



Western blot testing of Dnmt3a antibody at 1:2000: Lane 1) human T47D, 2) CCRF-CEM, 3) Jurkat and 4) HeLa cell lysate. 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. [UniProt]

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

The stated application concentrations are suggested starting points. Titration of the Dnmt3a antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Recombinant human Dnmt3a was used as the immunogen for the Dnmt3a antibody.

Storage

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

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