

DNMT3a Blocking peptide

Catalog # PBV10088b

Specification

DNMT3a Blocking peptide - Product Information

Primary Accession
Gene ID
Calculated MW
Q9Y6K1
1788
101858

DNMT3a Blocking peptide - Additional Information

Gene ID 1788

Application & Usage The peptide is used for blocking the

antibody activity of DNMT3a. It usually blocks the antibody activity completely in Western blot analysis by incubating the peptide with equal volume of antibody for

30-60 minutes at 37°C.

Other Names

DNA (cytosine-5)-methyltransferase 3A, Dnmt3a, 2.1.1.37, DNA methyltransferase HsalliA, DNA MTase HsalliA, M.HsalliA, DNMT3A

Target/Specificity

DNMT3a

Formulation

 $50~\mu g$ (0.5 mg/ml) in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA and 0.02% thimerosal.

Reconstitution & Storage

-20 °C

Background Descriptions

Precautions

DNMT3a Blocking peptide is for research use only and not for use in diagnostic or therapeutic procedures.

DNMT3a Blocking peptide - Protein Information

Name DNMT3A

Function

Required for genome-wide de novo methylation and is essential for the establishment of DNA methylation patterns during development (PubMed:12138111, PubMed:<a



 $href="http://www.uniprot.org/citations/16357870" target="_blank">16357870, PubMed:30478443). DNA methylation is coordinated with methylation of histones (PubMed:<a$

methylation is coordinated with methylation of histones (PubMed:12138111, PubMed:16357870, PubMed:30478443). It modifies DNA in a non-processive manner and also methylates non-CpG sites (PubMed:12138111, PubMed:16357870, PubMed:30478443, Required for methylate DNA linker between 2 nucleosomal cores and is inhibited by histone H1 (By similarity). Plays a role in paternal and maternal imprinting (By similarity). Required for methylation of most imprinted loci in germ cells (By similarity). Acts as a transcriptional corepressor for ZBTB18 (By similarity). Recruited to trimethylated 'Lys-36' of histone H3 (H3K36me3) sites (By similarity). Also has weak auto-methylation activity on Cys-710 in absence of

Cellular Location

DNA (By similarity).

Nucleus. Chromosome Cytoplasm. Note=Accumulates in the major satellite repeats at pericentric heterochromatin {ECO:0000250|UniProtKB:088508}

Tissue Location

Highly expressed in fetal tissues, skeletal muscle, heart, peripheral blood mononuclear cells, kidney, and at lower levels in placenta, brain, liver, colon, spleen, small intestine and lung

DNMT3a Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

DNMT3a Blocking peptide - Images