

Recombinant Mouse Dnmt1 protein ab136360

1 Image

Description

Product name	Recombinant Mouse Dnmt1 protein
Purity	> 70 % Densitometry. Affinity purified.
Expression system	Baculovirus infected Sf9 cells
Accession	<u>P13864</u>
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Mouse
Sequence	

VSVIP DDSSKPLYLA RVTALWEDKN GQMMFHAHWF
CAGTDTVLGA TSDPLELFLV GECENMQLSY IHSKVKVYK
APSENWAMEG GTDPETTLPG AEDGKTYFFQ
LWYNQEYARF ESPPKTQPTD DNKHKFCLSC
IRLAELRQKE MPKVLEQIEE VDGRVYCSSI TKNQVYRLG
DSVYLPPEAF TFNIKVASPV KRPKKDPVNE
TLYPEHYRKY SDYIKGSNLD APEPYRIGRI KEIHCCKKKG
KVNEADIKLR LYKFYRPENT HRSYNGSYHT DINMLYWSDE
EAVVNFSDVQ GRCTVEYGED LLESIQDYSQ
GGPDRFYFLE AYNSKTKNFE DPPNHARSPG
NKGKGKGGK GKGKHQVSEP KEPEAAIKLP
KLRTLDVFSG CGGLSEGPHQ AGISETLWAI
EMWDPAQAQAF RLNNPGTTVF TEDCNVLLKL
VMAGEVTNSL GQRLPQKGDV EMLCGGPPCQ
GFSGMNRFNH RTYSKFKNSL VVSFLSYCDY
YRPRFFLLEN VRNFVSYRRS MVLKLTLRCL
VRMGYQCTFG VLQAGQYGVA QTRRRAILA
AAPGEKLPLF PEPLHVFAPR ACQLSVVVDD
KKFVSNITRL SSGPFRTITV RDTMSDLPEI QNGASNSEIP
YNGEPLSWFQ RQLRGSHYQP ILRDHICKDM
SPLVAARMRH IPLFPGSDWR DLPNIQVRLG
DGVIAHKLQY TFHDVKNGYS STGALRGVCS
CAEGKACDPE SRQFSTLIPW CLPHTGNRHN
HWAGLYGRLE WDGFFSTTVT NPEPMGKQGR
VLHPEQHRVV SVRECARSQG FPDSYRFFGN

ILDRHRQVGN AVPPPLAKAI GLEIKLCLLS SARESASAAV
KAKEEAATKD

Predicted molecular weight	132 kDa
Amino acids	766 to 1620

Specifications

Our **Abpromise guarantee** covers the use of **ab136360** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Western blot SDS-PAGE
Form	Liquid

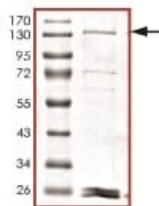
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.31% Glutathione, 0.002% PMSF, 0.004% DTT, 0.79% Tris HCl, 0.003% EDTA, 25% Glycerol (glycerin, glycerine), 0.88% Sodium chloride
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General Info

Function	Methylates CpG residues. Preferentially methylates hemimethylated DNA. Associates with DNA replication sites in S phase maintaining the methylation pattern in the newly synthesized strand, that is essential for epigenetic inheritance. Associates with chromatin during G2 and M phases to maintain DNA methylation independently of replication. It is responsible for maintaining methylation patterns established in development. DNA methylation is coordinated with methylation of histones. Mediates transcriptional repression by direct binding to HDAC2. In association with DNMT3B and via the recruitment of CTCFL/BORIS, involved in activation of BAG1 gene expression by modulating dimethylation of promoter histone H3 at H3K4 and H3K9.
Tissue specificity	Ubiquitous; highly expressed in fetal tissues, heart, kidney, placenta, peripheral blood mononuclear cells, and expressed at lower levels in spleen, lung, brain, small intestine, colon, liver, and skeletal muscle. Isoform 2 is less expressed than isoform 1.
Sequence similarities	Belongs to the C5-methyltransferase family. Contains 2 BAH domains. Contains 1 CXXC-type zinc finger.
Domain	The N-terminal part is required for homodimerization and acts as a regulatory domain.
Post-translational modifications	Sumoylated; sumoylation increases activity.
Cellular localization	Nucleus.

Images



SDS-PAGE using ab136360

SDS-PAGE - Recombinant Mouse Dnmt1 protein
(ab136360)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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