

Recombinant human Dnmt3b protein ab170410

2 References 4 图像

描述	
产品名称	重组人Dnmt3b蛋白
生物活性	The specific activity of ab170410 was determined to be 525 pmol/min/mg.
纯度	> 75 % Densitometry. Affinity purified.
表达系统	Baculovirus infected Sf9 cells
Accession	<u>Q9UBC3</u>
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
序列	MKGDTRHLNGEEDAGGREDSILVNGACSDQSSDSPPILEAIR TPEIRGRR SSSRLSKREVSSLLSYTQDLTGDDGEDGDGSDTPVMPKLF ETRTRSES PAVRTRNNNSVSSRERHRPSRSTRGRQGRNHVDESPVEFPA TRSLRRRA TASAGTPWPSPSSYLTIDLTDDTEDTHGTPQSSSTPYARLA QDSQQGGM ESPQVEADSGDGSSEYQDGKEFGIGDLVWGKIKGFSWWPAM VVSWKATS KRQAMSGMRVWQWFGDGKFSEVSADKLVALGLFSQHFNLATF NKLVSyrK AMYHALEKARVRAGKTFPSSPGDSLEDQLKPMLEWAHGGFKP TGIEGLKP NNTQPVVNKSKVRRAGSRKLESrKYENKTRRRRTADDSATSDY CPAPKRLK TNCYNNGKDRGDEDQSREQMASDVANNKSSLEDGCLSCGRKN PVSFHPLF EGGLCQTCRDRFLELFYMYDDDGYSYCTVCCEGRELLLC SN TSCRCFC VECLEVLVGTGTAAEAKLQEPWSCYMCLPQRCHGVLRRRKDW NVRLQAFF TSDTGLEYEAPKLYPAIPAARRRPIRVLSLFDGIATGYLVLK ELGIKVGK

YVASEVCEESIAVGTVKHEGNIKYVNDVRNITKKNIEEWGPF
DLVIGGSP
CNDLSNVNPARKGLYEGTGRLFFEFYHLLNYSRPKEGDDRPF
FWMFENVV
AMKVGDKRDISRFLECNPMIDAIVKSAHRARYFWGNLPGM
NRPVIAASK
NDKLELQDCLEYNRIAKLKKVQTITTKSNSIKQGKNQLFPVV
MNGKEDVL
WCTELERIFGFPVHYTDVSNMGRGARQKLLGRSWSVPVIRHL
FAPLKDYF ACE

预测分子量	138 kDa including tags
氨基酸	1 to 853
标签	proprietary tag N-Terminus

技术指标

Our Abpromise guarantee covers the use of ab170410 in the following tested applications.	
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.	
应用	SDS-PAGE Functional Studies
形式	Liquid

制备和贮存

稳定性和存储	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), 0.29% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.
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常规信息

功能	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. May preferentially methylates nucleosomal DNA within the nucleosome core region. May function as transcriptional co-repressor by associating with CBX4 and independently of DNA methylation. Seems to be involved in gene silencing (By similarity). In association with DNMT1 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. Isoforms 4 and 5 are probably not functional due to the deletion of two conserved methyltransferase motifs.
组织特异性	Ubiquitous; highly expressed in fetal liver, heart, kidney, placenta, and at lower levels in spleen, colon, brain, liver, small intestine, lung, peripheral blood mononuclear cells, and skeletal muscle. Isoform 1 is expressed in all tissues except brain, skeletal muscle and PBMC, 3 is ubiquitous, 4 is expressed in all tissues except brain, skeletal muscle, lung and prostate and 5 is detectable only in testis and at very low level in brain and prostate.
疾病相关	Defects in DNMT3B are a cause of immunodeficiency-centromeric instability-facial anomalies

syndrome (ICF) [MIM:242860]. ICF is a rare autosomal recessive disorder characterized by a variable immunodeficiency, mild facial anomalies, and centromeric heterochromatin instability involving chromosomes 1, 9, and 16. ICF is biochemically characterized by hypomethylation of CpG sites in some regions of heterochromatin.

序列相似性

Belongs to the C5-methyltransferase family.

Contains 1 ADD domain.

Contains 1 GATA-type zinc finger.

Contains 1 PHD-type zinc finger.

Contains 1 PWWP domain.

结构域

The PWWP domain is essential for targeting to pericentric heterochromatin.

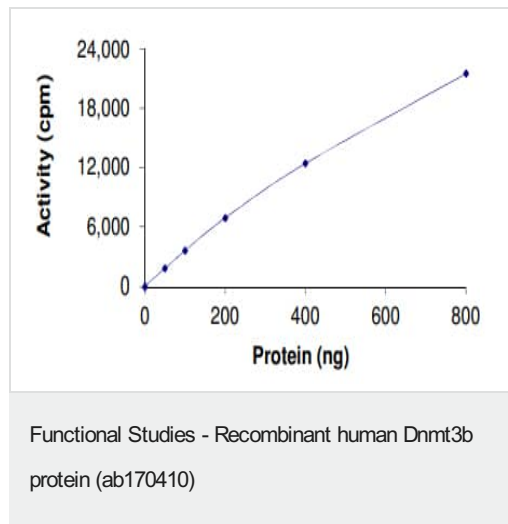
翻译后修饰

Sumoylated.

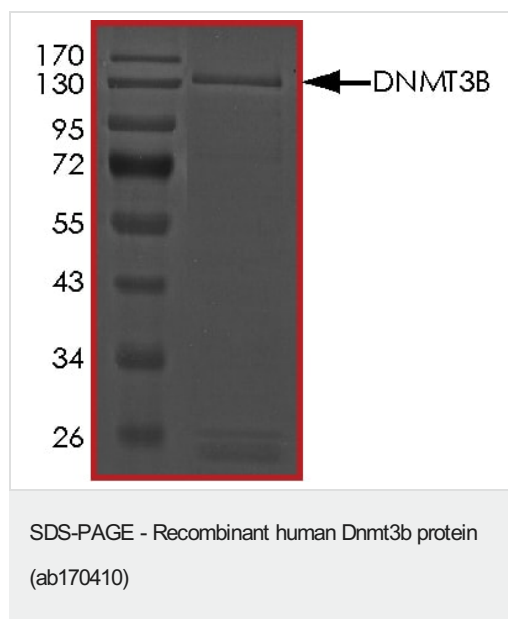
细胞定位

Nucleus.

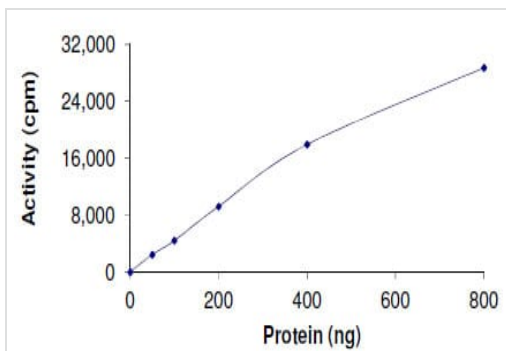
图片



The specific activity of Dnmt3b (ab170410) was determined to be 450 nmol/min/mg as per activity assay protocol

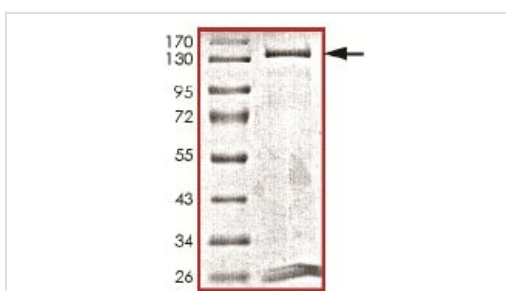


SDS PAGE analysis of ab170410



Sample Methyltransferase Activity plot using ab170410.

Functional Studies - Recombinant human Dnmt3b protein (ab170410)



SDS-PAGE analysis of ab170410.

SDS-PAGE - Recombinant human Dnmt3b protein (ab170410)

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