

Product datasheet

Recombinant human Dnmt3L protein ab170406

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Description

Product name	Recombinant human Dnmt3L protein
Biological activity	Specific activity of ab170406 (0.25 µg) was increased 3-fold when co-incubated with 0.25 µg DNMT3L
Purity	> 80 % Densitometry. Affinity purified.
Expression system	Baculovirus infected Sf9 cells
Accession	<u>Q9UJW3</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MAAIPALDPEAEPSMDVILVGSSSELSSSVSPGTGRDLIAYE VKANQRNIE DICICGSLQVHTQHPLFEGGICAPCKDKFLDALFLYDDD GYQSYCSICC SGETLLICGNPDCTRCYCFECVDSLVGPGTSGKVHAMSN WVCYLCLPSSR SGLLQRRRKWRSQKAFYDRESENPLEMFETVPVWRRQ PVRVLSLFEDIK KELTSLGFLGSDPGQLKHVVDVTDTVRKDVEEWGPF DLVYGATPPLGH TCDRPPSWYLFQFHRLQYARPKPGSPRPFWMFVDNL VLNKEDLDVASR FLEMPEVTIPDVHGGSLQNAV RVWSNIPAIRSRHWALVSE EELSLLAQNK QSSKLAAKWPTKLVKNCFLPLREYFKYFSTELTSSL
Predicted molecular weight	70 kDa including tags
Amino acids	1 to 386

Specifications

Our **Abpromise guarantee** covers the use of **ab170406** in the following tested applications.

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

Applications	Functional Studies SDS-PAGE
Form	Liquid

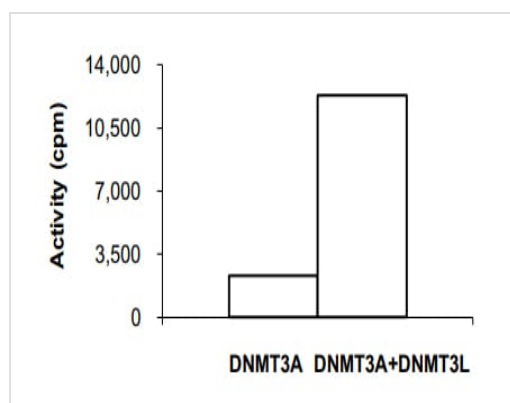
Preparation and Storage

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, 0.03% 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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General Info

Function	Catalytically inactive regulatory factor of DNA methyltransferases. It is essential for the function of DNMT3A and DNMT3B. Activates DNMT3A and DNMT3B by binding to their catalytic domain. Accelerates the binding of DNA and AdoMet to the methyltransferases and dissociates from the complex after DNA binding to the methyltransferases. Recognizes unmethylated histone H3 lysine 4 (H3K4) and induces de novo DNA methylation by recruitment or activation of DNMT3.
Tissue specificity	Expressed at low levels in several tissues including testis, ovary, and thymus.
Sequence similarities	Belongs to the C5-methyltransferase family. Contains 1 ADD-type zinc finger.
Cellular localization	Nucleus.

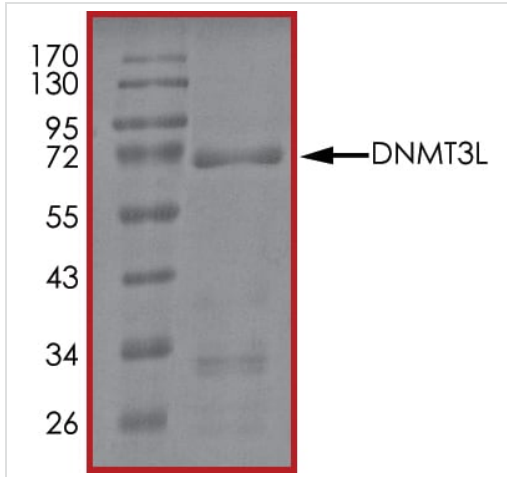
Images



The specific activity of Dnmt3L (ab170406) was increased 5-fold coincubated with DNMT3L

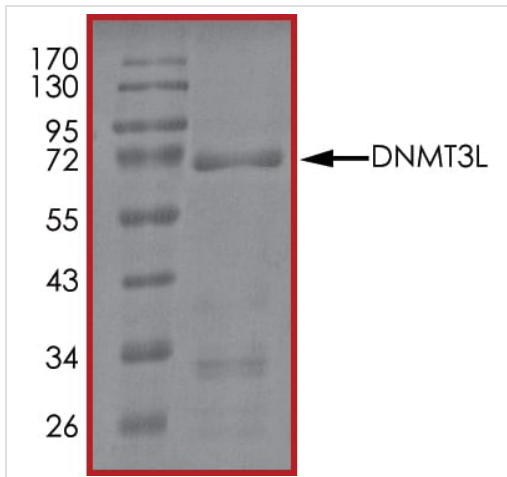
Functional Studies - Recombinant human Dnmt3L protein (ab170406)

SDS PAGE analysis of ab170406

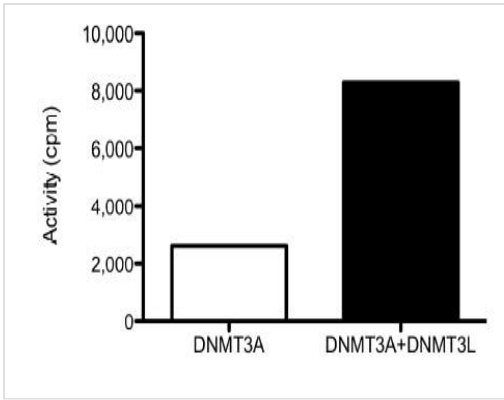


SDS-PAGE - Recombinant human Dnmt3L protein
(ab170406)

SDS PAGE analysis of ab170406

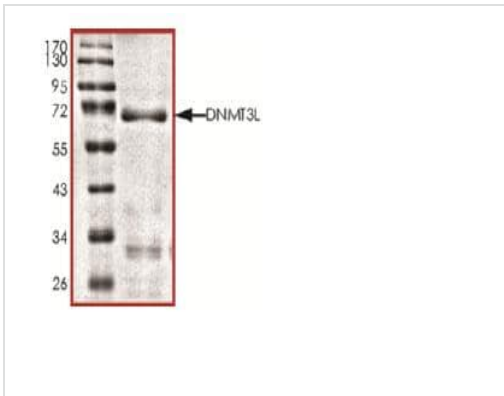


SDS-PAGE - Recombinant human Dnmt3L protein
(ab170406)



Specific activity of ab170406 (0.25µg) was increased 3-fold when co-incubated with Dnmt3L (0.25µg)

Functional Studies - Recombinant human Dnmt3L protein (ab170406)



SDS-PAGE analysis of ab170406.

SDS-PAGE - Recombinant human Dnmt3L protein (ab170406)

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

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