abcam

Product datasheet

Anti-Dnmt1 antibody ab77689

1 图像

概述

产品名称	Anti-Dnmt1抗体
描述	**山羊多克隆抗体**to Dnmt1
宿主	Goat
经测试应用	**适用于:** WB, ELISA
种属反应性	**与反应:** Human **预测可用于:** Mouse, Rat, Sheep, Cow, Dog, Pig
免疫原	Synthetic peptide: C-RFESPPKTQPTEDN , corresponding to internal sequence amino acids 875-888 of human Dnmt1 (NP_001370.1). Run BLAST with Run BLAST with
阳性对照	Jurkat cell lysate.

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
存储溶液	Preservative: 0.02% Sodium Azide Constituents: 0.5% BSA, Tris saline, pH 7.3
纯度	Immunogen affinity purified
纯化说明	ab77689 was purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
克隆	**多克隆**
同种型	IgG

应用

The Abpromise guarantee	**Abpromise™承诺保证使用ab77689于以下的经测试应用**

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		
ELISA		

应用说明

Peptide ELISA: Use at an assay dependent dilution. Antibody detection limit dilution 1/32,000.
WB: Use at a concentration of 0.5 - 1.5 µg/ml. Predicted molecular weight: 183 kDa.

Not yet tested in other applications.
Optimal dilutions/concentrations should be determined by the end user.

靶标

功能

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.

组织特异性

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.

序列相似性

Belongs to the C5-methyltransferase family.
Contains 2 BAH domains.
Contains 1 CXXC-type zinc finger.

结构域

The N-terminal part is required for homodimerization and acts as a regulatory domain.

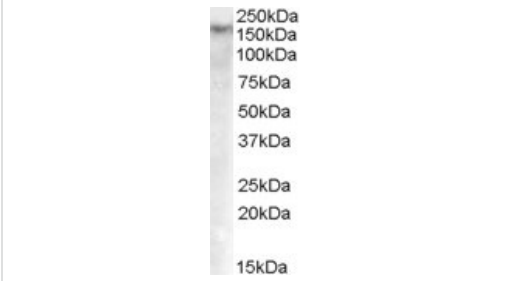
翻译后修饰

Sumoylated; sumoylation increases activity.

细胞定位

Nucleus.

图片



Western blot - Anti-Dnmt1 antibody (ab77689)

Anti-Dnmt1 antibody (ab77689) at 0.5 µg/ml + Jurkat cell lysate (in RIPA buffer) at 35 µg

Developed using the ECL technique.

Predicted band size: 183 kDa
Observed band size: 183 kDa

Exposure time: 1 hour

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.cn/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors