abcam

Product datasheet

Recombinant human KMT1B / SUV39H2 protein ab80288

2 图像

描述

产品名称	重组人KMT1B / SUV39H2蛋白
生物活性	Specific Activity: 38 pmol/min/mg.
纯度	> 70 % SDS-PAGE.
表达系统	Escherichia coli
Accession	Q9H5I1
蛋白长度	Protein fragment
无动物成分	No
性质	Recombinant
种属	Human
氨基酸	26 to 350

技术指标

Our **Abpromise guarantee** covers the use of **ab80288** in the following tested applications.

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

应用	Functional Studies SDS-PAGE
形式	Liquid

制备和贮存

稳定性和存储	Shipped on Dry Ice. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.0462% (R*,R*)-1,4-Dimercaptobutan-2,3-diol, 0.395% Tris HCl, 0.05% Tween, 30% Glycerol (glycerin, glycerine), 0.58% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.

常规信息

功能	Histone methyltransferase that specifically trimethylates 'Lys-9' of histone H3 using monomethylated H3 'Lys-9' as substrate. H3 'Lys-9' trimethylation represents a specific tag for epigenetic transcriptional repression by recruiting HP1 (CBX1, CBX3 and/or CBX5) proteins to methylated histones. Mainly functions in heterochromatin regions, thereby playing a central role in the establishment of constitutive heterochromatin at pericentric and telomere regions. H3 'Lys-9' trimethylation is also required to direct DNA methylation at pericentric repeats. SUV39H1 is targeted to histone H3 via its interaction with RB1 and is involved in many processes, such as cell cycle regulation, transcriptional repression and regulation of telomere length. May participate in regulation of higher order chromatin organization during spermatogenesis.
序列相似性	Belongs to the histone-lysine methyltransferase family. Suvar3-9 subfamily. Contains 1 chromo domain. Contains 1 post-SET domain. Contains 1 pre-SET domain. Contains 1 SET domain.
结构域	Although the SET domain contains the active site of enzymatic activity, both pre-SET and post-SET domains are required for methyltransferase activity. The SET domain also participates to stable binding to heterochromatin.
细胞定位	Nucleus. Chromosome > centromere. Associates with centromeric constitutive heterochromatin.

图片

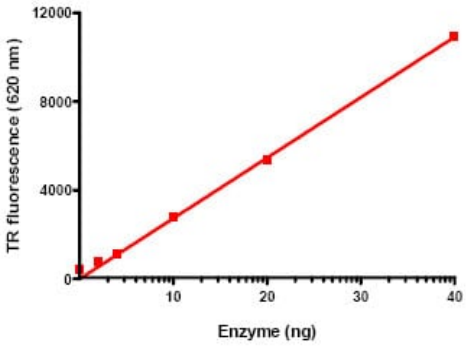
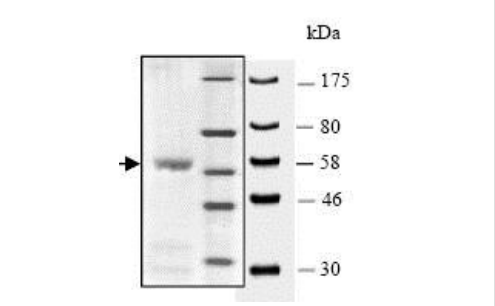


Image showing specific activity of ab80288.

Functional Studies - Recombinant human KMT1B / SUV39H2 protein (ab80288)



10% SDS-PAGE showing ab80288 at approximately 63kDa (3µg).

SDS-PAGE - Recombinant human KMT1B / SUV39H2 protein (ab80288)

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

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