abcam

Product datasheet

KMT1E / SETDB1 overexpression 293T lysate (whole cell) ab94305

2 Images

Overview

Product name	KMT1E / SETDB1 overexpression 293T lysate (whole cell)
General notes	ab94305 is a 293T cell transfected lysate in which Human KMT1E / SETDB1 has been transiently over-expressed using a pCMV-KMT1E / SETDB1 plasmid. The lysate is provided in 1X Sample Buffer. **Note:** For more detailed how the transfected lysate was prepared **view preparation notes**
Tested applications	**Suitable for:** WB

Properties

Mycoplasma free	Yes
Form	Liquid
Storage instructions	Shipped on dry ice. Upon delivery aliquot and store at -20ºC. Avoid freeze / thaw cycles.
Storage buffer	Constituents: 0.01% Bromophenol blue, 2.3% Beta mercaptoethanol, 2% Sodium lauryl sulfate, 0.788% Tris HCl, 10% Glycerol (glycerin, glycerine)
Background	Domain: The pre-SET, SET and post-SET domains are all required for methyltransferase activity. The 347-amino-acid insertion in the SET domain has no effect on the catalytic activity. Isoform 2 lacks all domains required for histone methyltransferase activity. Function: Histone methyltransferase that specifically trimethylates 'Lys-9' of histone H3. 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 euchromatin regions, thereby playing a central role in the silencing of euchromatic genes. H3 'Lys-9' trimethylation is coordinated with DNA methylation. Probably forms a complex with MBD1 and ATF7IP that represses transcription and couples DNA methylation and histone 'Lys-9' trimethylation. Its activity is dependent on MBD1 and is heritably maintained through DNA replication by being recruited by CAF-1. SETDB1 is targeted to histone H3 by TRIM28/TIF1B, a factor recruited by KRAB zinc-finger proteins. Similarity: Belongs to the histone-lysine methyltransferase family. Suvar3-9 subfamily. Contains 1 MBD (methyl-CpG-binding) domain. Contains 1 post-SET domain. Contains 1 pre-SET domain. Contains 1 SET domain. Contains 2 Tudor domains. Tissue specificity: Widely expressed. High expression in testis.

Applications

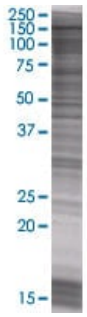
Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab94305 in the following tested applications.

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

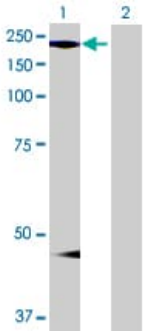
Application	Abreviews	Notes
WB		Use at an assay dependent dilution.

Images



SDS-PAGE - KMT1E / SETDB1 overexpression 293T lysate (whole cell) (ab94305)

ab94305 at 15µg/lane on an SDS-PAGE gel



Western blot - KMT1E / SETDB1 overexpression 293T lysate (whole cell) (ab94305)

All lanes : Anti-KMT1E / SETDB1 antibody (**ab61329**) at 1/500 dilution

Lane 1 : KMT1E / SETDB1 overexpression 293T lysate (whole cell) (ab94305)
Lane 2 : 293T non-transfected lysate

Lysates/proteins at 25 µg per lane.

Secondary
All lanes : Goat Anti-mouse IgG (H and L) HRP conjugated at 1/2500 dilution

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