abcam

Product datasheet

Anti-KMT1E / SETDB1 antibody ab12317

★★★★ 4 Abreviews 27 References 1 Image

Overview

Product name Anti-KMT1E / SETDB1 antibody

Description Rabbit polyclonal to KMT1E / SETDB1

Host species Rabbit

Tested applications Suitable for: WB

Species reactivity Reacts with: Human

Predicted to work with: Mouse, Chimpanzee, Rhesus monkey, Gorilla, Orangutan

Synthetic peptide within Human KMT1E/ SETDB1 aa 1100-1200. The exact immunogen **Immunogen**

> sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please contact

our Scientific Support team to discuss your requirements.

Database link: Q15047

Positive control WB: HeLa and HEK293T whole cell lysates.

General notes The Life Science industry has been in the grips of a reproducibility crisis for a number of years.

> Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets

your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be

found below, along with publications, customer reviews and Q&As

Properties

Form Liquid

Storage instructions Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C.

Avoid freeze / thaw cycle.

Storage buffer pH: 7

Preservative: 0.1% Sodium azide

Constituents: 0.021% PBS, 1.764% Sodium citrate, 1.815% Tris

Purity Immunogen affinity purified

Purification notes Purified using the peptide immobilized on solid support.

Clonality Polyclonal

Isotype IgG

Applications

The Abpromise guarantee

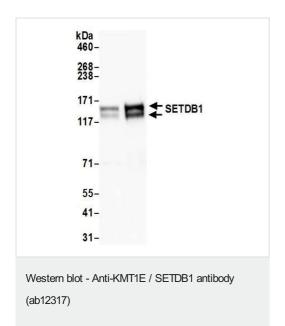
Our $\underline{\textbf{Abpromise guarantee}}$ covers the use of ab12317 in the following tested applications.

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

Application	Abreviews	Notes
WB		1/1000 - 1/10000. Predicted molecular weight: 155 kDa.

Target		
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.	
Tissue specificity	Widely expressed. High expression in testis.	
Sequence similarities	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.	
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. soform 2 lacks all domains required for histone methyltransferase activity.	
Cellular localization	Nucleus. Chromosome. Associated with non-pericentromeric regions of chromatin. Excluded finucleoli and islands of condensed chromatin.	

Images



All lanes: Anti-KMT1E / SETDB1 antibody (ab12317) at 1 µg/ml

Lane 1: HeLa whole cell lysate

Lane 2: HEK293T whole cell lysate

Lysates/proteins at 50 µg per lane.

Predicted band size: 155 kDa

Our Abpromise to you: Quality guaranteed and expert technical support

• Replacement or refund for products not performing as stated on the datasheet

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

- · 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.com/abpromise or contact our technical team.

Terms and conditions

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