

Setd1b polyclonal antibody
Rabbit Polyclonal Antibody
Catalog # ABV11378**Specification**

Setd1b polyclonal antibody - Product Information

Application	WB, E
Primary Accession	Q9UPS6
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	212803

Setd1b polyclonal antibody - Additional Information

Positive Control	Western blot: NIH3T3 and embryonic stem cells, ELISA: Peptides.
Application & Usage	ELISA: 1:100 - 1:500, Western Blot: 1:500.
Other Names	
SET1B, KMT2G	

Target/Specificity
Setd1b**Antibody Form**
Liquid**Appearance**
Colorless liquid**Formulation**
In PBS with 0.05% (W/V) sodium azide.**Handling**
The antibody solution should be gently mixed before use.**Reconstitution & Storage**
-20 °C**Background Descriptions****Precautions**
Setd1b polyclonal antibody is for research use only and not for use in diagnostic or therapeutic procedures.**Setd1b polyclonal antibody - Protein Information**

Name SETD1B**Synonyms** KIAA1076, KMT2G, SET1B**Function**

Histone methyltransferase that catalyzes methyl group transfer from S-adenosyl-L-methionine to the epsilon-amino group of 'Lys-4' of histone H3 (H3K4) via a non-processive mechanism (PubMed:25561738, PubMed:17355966). Part of chromatin remodeling machinery, forms H3K4me1, H3K4me2 and H3K4me3 methylation marks at active chromatin sites where transcription and DNA repair take place (PubMed:25561738, PubMed:17355966). Plays an essential role in regulating the transcriptional programming of multipotent hematopoietic progenitor cells and lymphoid lineage specification during hematopoiesis (By similarity).

Cellular Location

Nucleus. Nucleus speckle. Chromosome. Cytoplasm Note=Localizes to a largely non-overlapping set of euchromatic nuclear speckles with SETD1A, suggesting that SETD1A and SET1B each bind to a unique set of target genes (PubMed:17355966) (Probable). Predominantly nuclear (PubMed:38003223).

Setd1b polyclonal antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Setd1b polyclonal antibody - Images**Setd1b polyclonal antibody - Background**

SETD1B (UniProt/Swiss-Prot entry Q9UPS6) is a component of the SET1 histone methyltransferase (HMT) complex. This complex specifically methylates lysine 4 of histone H3, but only if the neighboring lysine 9 residue is not yet methylated. Methylation of H3K4 represents a specific tag for epigenetic transcriptional activation. SETD1B shows a non-overlapping localization with SETD1A, suggesting that both proteins play a specific role in the epigenetic control of chromatin structure and gene expression.