10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SET1B Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12413b

Product Information

Application	WB, E
Primary Accession	Q9UPS6
Other Accession	Q66J90, Q8CFT2, Q5F3P8, Q1LY77, NP_055863.1
Reactivity	Human, Rat, Mouse
Predicted	Zebrafish, Chicken, Xenopus
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB14272
Calculated MW	212803
Antigen Region	1806-1839

Additional Information

Gene ID	23067
Other Names	Histone-lysine N-methyltransferase SETD1B, Lysine N-methyltransferase 2G, SET domain-containing protein 1B, hSET1B, SETD1B, KIAA1076, KMT2G, SET1B
Target/Specificity	This SET1B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1806-1839 amino acids from the C-terminal region of human SET1B.
Dilution	WB~~1：2000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SET1B Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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:17355966, PubMed:25561738). Part of chromatin remodeling machinery, forms H3K4me1, H3K4me2 and H3K4me3 methylation marks at active chromatin sites where transcription and DNA repair take place (PubMed:17355966, PubMed:25561738). 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 (Probable) (PubMed:17355966). Predominantly nuclear (PubMed:38003223).

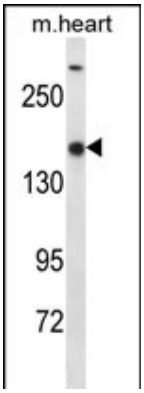
Background

SET1B is a component of a histone methyltransferase complex that produces trimethylated histone H3 at Lys4 (Lee et al., 2007 [PubMed 17355966]).

References

Wu, M., et al. Mol. Cell. Biol. 28(24):7337-7344(2008)
Lee, J.H., et al. Mol. Cell. Biol. 28(2):609-618(2008)
Lee, J.H., et al. J. Biol. Chem. 282(18):13419-13428(2007)

Images



SET1B Antibody (C-term) (Cat. #AP12413b) western blot analysis in mouse heart tissue lysates (35ug/lane).This demonstrates the SET1B antibody detected the SET1B protein (arrow).