

KMT2B Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP56406

Specification

KMT2B Polyclonal Antibody - Product Information

Application IHC-P, IHC-F, IF, ICC, E

Primary Accession <u>Q9UMN6</u>

Reactivity
Host
Clonality
Calculated MW
Physical State

Rat, Dog, Bovine
Rabbit
Polyclonal
293 KDa
Liquid

Immunogen KLH conjugated synthetic peptide derived

from human KMT2B

Epitope Specificity 501-600/2715

Isotype IgG
Purity

affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION
SIMILARITY

Nucleus.
Belongs to the class V-like SAM-binding

beings to the class which sales

methyltransferase superfamily.

Histone-lysine methyltransferase family. TRX/MLL subfamily. Contains 3 A.T hook

DNA-binding domains. Contains 1
CXXC-type zinc finger. Contains 1 FYR
C-terminal domain. Contains 1 FYR
N-terminal domain. Contains 3 PHD-type
zinc fingers. Contains 1 post-SET domain.

Contains 1 SET domain.

Important Note This product as supplied is intended for

research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

This gene encodes a protein which contains multiple domains including a CXXC zinc finger, three PHD zinc fingers, two FY-rich domains, and a SET (suppressor of variegation, enhancer of zeste, and trithorax) domain. The SET domain is a conserved C-terminal domain that characterizes proteins of the MLL (mixed-lineage leukemia) family. This gene is ubiquitously expressed in adult tissues. It is also amplified in solid tumor cell lines, and may be involved in human cancer. Two alternatively spliced transcript variants encoding distinct isoforms have been reported for this gene, however, the full length nature of the shorter transcript is not known. [provided by RefSeq, Jul 2008]

KMT2B Polyclonal Antibody - Additional Information

Gene ID 9757



Tel: 858.875.1900 Fax: 858.875.1999

Other Names

Histone-lysine N-methyltransferase 2B, Lysine N-methyltransferase 2B, 2.1.1.354, Myeloid/lymphoid or mixed-lineage leukemia protein 4, Trithorax homolog 2, WW domain-binding protein 7, WBP-7, KMT2B, HRX2, KIAA0304, MLL2, MLL4, TRX2, WBP7

Target/Specificity

Widely expressed. Highest levels in testis. Also found in brain, bone marrow, heart, muscle, kidney, placenta, spleen, thymus, prostate, ovary, intestine, colon, peripheral blood lymphocytes and pancreas. Often amplified in pancreatic carcinomas.

Dilution

IHC-P~~N/A<br \><span class</pre> ="dilution IHC-F">IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

KMT2B Polyclonal Antibody - Protein Information

Name KMT2B

Synonyms HRX2, KIAA0304, MLL2, MLL4, TRX2, WBP7

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. Part of chromatin remodeling machinery predominantly forms H3K4me1 and H3K4me2 methylation marks at active chromatin sites where transcription and DNA repair take place (PubMed: 17707229, PubMed:25561738). Likely plays a redundant role with KMT2C in enriching H3K4me1 marks on primed and active enhancer elements (PubMed: 24081332). Plays a central role in beta-globin locus transcription regulation by being recruited by NFE2 (PubMed:17707229). Plays an important role in controlling bulk H3K4me during oocyte growth and preimplantation development (By similarity). Required during the transcriptionally active period of oocyte growth for the establishment and/or maintenance of bulk H3K4 trimethylation (H3K4me3), global transcriptional silencing that preceeds resumption of meiosis, oocyte survival and normal zygotic genome activation (By similarity).

Cellular Location

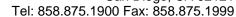
Nucleus.

Tissue Location

Widely expressed. Highest levels in testis. Also found in brain with higher expression in the cerebellum than in any other region, bone marrow, heart, muscle, kidney, placenta, spleen, thymus, prostate, ovary, intestine, colon, peripheral blood lymphocytes and pancreas. Often amplified in pancreatic carcinomas

KMT2B Polyclonal Antibody - Protocols







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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KMT2B Polyclonal Antibody - Images