

## Rabbit Anti-KMT2B/AF350 Conjugated antibody

SL16791R-AF350

<b>Product Name</b>	Anti-KMT2B/AF350
<b>Chinese Name</b>	AF350 标记的组蛋白赖氨酸 N-甲基转移酶 2B 抗体
<b>Alias</b>	Histone-lysine N-methyltransferase 2B; HRX2; KIAA0304 gene product; KMT2B; KMT2B_HUMAN; Likely ortholog of mouse WW domain binding protein 7; Lysine N-methyltransferase 2B; mixed lineage leukemia 4; Mixed lineage leukemia gene homolog 2 protein; MLL2; myeloid lymphoid leukemia 4; Myeloid lymphoid or mixed lineage leukemia protein 4; Myeloid/lymphoid or mixed-lineage leukemia protein 4; Trithorax homolog 2; trithorax homologue 2; TRX2; WBP-7; WBP7; WW domain-binding protein 7.
<b>Product Type</b>	Methylated anti
<b>Research Area</b>	Cell biology transcriptional regulatory factor Epigenetics
<b>Immunogen Species</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>React Species</b>	(predicted:Human,Mouse,Rat,Dog,Cow,Horse) ICC/IF=1:50-200,IF=1:100-500
<b>Applications</b>	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight</b>	293kDa
<b>Form</b>	Lyophilized or Liquid
<b>Concentration</b>	1mg/ml
<b>immunogen</b>	KLH conjugated synthetic peptide derived from human KMT2B
<b>Lsotype</b>	IgG
<b>Purification</b>	affinity purified by Protein A
<b>Storage Buffer</b>	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>Storage</b>	

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**background:**

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]

**Function:**

Histone methyltransferase. Methylates 'Lys-4' of histone H3. H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation. Plays a central role in beta-globin locus transcription regulation by being recruited by NFE2. Plays an important role in controlling bulk H3K4me during oocyte growth and preimplantation development. Required during the transcriptionally active period of oocyte growth for the establishment and/or maintenance of bulk H3K4 trimethylation (H3K4me3), global transcriptional silencing that precedes resumption of meiosis, oocyte survival and normal zygotic genome activation.

**Product Detail**

**Subcellular Location:**

Nucleus.

**Tissue 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.

**Similarity:**

Belongs to the class V-like SAM-binding 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.

**Database links:**



[Entrez Gene: 9757](#) Human

[Entrez Gene: 538698](#) Cow

[Entrez Gene: 75410](#) Mouse

[Entrez Gene: 361543](#) Rat

[Omim: 606834](#) Human

[SwissProt: Q9UMN6](#) Human

[SwissProt: O08550](#) Mouse

[Unigene: 676457](#) Human

[Unigene: 92236](#) Human

[Unigene: 168688](#) Mouse

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.