



# Anti-KMT2B (aa 2703-2715) polyclonal antibody (DPABH-19750)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

**Antigen Description** 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.

**Immunogen** Synthetic peptide corresponding to Human KMT2B/ MLL4 aa 2703-2715 (C terminal). Entrez gene ID: 9757 Sequence: CNCGAKRCRRFLN Database link: Q9UMN6

**Isotype** IgG

**Source/Host** Goat

**Species Reactivity** Human

**Purification** Protein G purified

**Conjugate** Unconjugated

**Applications** ELISA, IHC-P

**Format** Liquid

**Size** 50 µg

**Buffer** Constituents: 0.5% BSA, Tris buffered saline, pH 7.3

**Preservative** 0.02% Sodium Azide

<b>Storage</b>	Store at 4°C short term (1-2 weeks). Aliquot and store at -20°C long term. Avoid repeated freeze / thaw cycles.
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## GENE INFORMATION

<b>Gene Name</b>	<a href="#">KMT2B lysine (K)-specific methyltransferase 3B [ Homo sapiens ]</a>
<b>Official Symbol</b>	KMT2B
<b>Synonyms</b>	KMT2B; lysine (K)-specific methyltransferase 2B; HRX2; MLL2; MLL4; TRX2; WBP7; MLL1B; WBP-7; histone-lysine N-methyltransferase 2B; trithorax homologue 2; WW domain binding protein 7; mixed lineage leukemia gene homolog 2; histone-lysine N-methyltransferase MLL4; myeloid/lymphoid or mixed-lineage leukemia protein 4; myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila) 4;
<b>Entrez Gene ID</b>	<a href="#">9757</a>
<b>Protein Refseq</b>	<a href="#">NP_055542.1</a>
<b>UniProt ID</b>	<a href="#">Q9UMN6</a>
<b>Pathway</b>	Lysine degradation.
<b>Function</b>	DNA binding; histone methyltransferase activity (H3-K4 specific); protein binding; sequence-specific DNA binding transcription factor activity