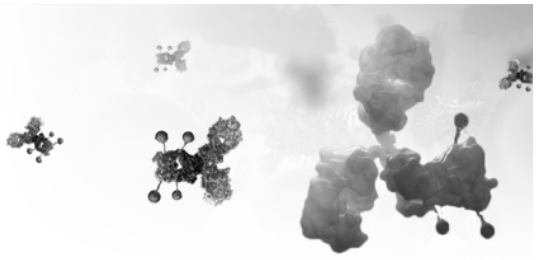

Anti-KMT2A (aa 3561-3670) polyclonal antibody (DPAB-DC1932)

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

PRODUCT INFORMATION

Antigen Description	This gene encodes a transcriptional coactivator that plays an essential role in regulating gene expression during early development and hematopoiesis. The encoded protein contains multiple conserved functional domains. One of these domains, the SET domain, is responsible for its histone H3 lysine 4 (H3K4) methyltransferase activity which mediates chromatin modifications associated with epigenetic transcriptional activation. This protein is processed by the enzyme Taspase 1 into two fragments, MLL-C and MLL-N. These fragments reassociate and further assemble into different multiprotein complexes that regulate the transcription of specific target genes, including many of the HOX genes. Multiple chromosomal translocations involving this gene are the cause of certain acute lymphoid leukemias and acute myeloid leukemias. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Oct 2010]
Immunogen	MLL (NP_005924, 3561 a.a. ~ 3670 a.a) partial recombinant protein with GST tag. The sequence is RTSSSEAHIPDQETTSLTSGTGTPGAEAEQQDTASVEQSSQKECGQPAGQVAVLPEVQVT QNPANEQESAEPKTVEEEESNFSSPLMLWLQQEQKRKESITEKKPKKGLV
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None

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Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	KMT2A lysine (K)-specific methyltransferase 2A [Homo sapiens (human)]
Official Symbol	KMT2A
Synonyms	KMT2A; lysine (K)-specific methyltransferase 2A; HRX; MLL; MLL1; TRX1; ALL-1; CXXC7; HTRX1; MLL1A; WDSTS; MLL/GAS7; TET1-MLL; histone-lysine N-methyltransferase 2A; trithorax-like protein; CDK6/MLL fusion protein; MLL/GAS7 fusion protein; MLL/GMPS fusion protein; zinc finger protein HRX; mixed lineage leukemia 1; lysine N-methyltransferase 2A; MLL-AF4 der(11) fusion protein; CXXC-type zinc finger protein 7; myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila);
Entrez Gene ID	4297
Protein Refseq	NP_001184033
UniProt ID	Q03164
Chromosome Location	11q23
Pathway	Lysine degradation; Transcriptional misregulation in cancer.
Function	AT DNA binding; chromatin binding; histone methyltransferase activity (H3-K4 specific); identical protein binding

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