

**Anti-Human/Mouse/Rat KMT2A Polyclonal Antibody**

**Polyclonal Antibody**

**Cat.NO.: PA04804**

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3th Edition

**Description:**KMT2A (Lysine Methyltransferase 2A) is a Protein Coding gene. Diseases associated with KMT2A include Wiedemann-Steiner Syndrome and Acute Biphentotypic Leukemia. Among its related pathways are Circadian rythm related genes and Lysine degradation. GO annotations related to this gene include transcription factor activity, sequence-specific DNA binding and identical protein binding. An important paralog of this gene is KMT2B.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.

**Antigen:**Synthetic peptide from human protein

**Form:**

**How to use:**1.0 ml distilled water will be added to the product

**Stability:** Lyophilized product, 5 years at 2 – 8°C; Solution, 2 years at –20°C

**Dilution:**PBS (pH7.4) containing 1% BSA

**Application:**This antibody can be used for western blotting in concentration of 1?5?g/ml.

**Specificity:**Heart, lung, brain and T- and B-lymphocytes.