

# [KO Validated] KMT2A Rabbit pAb

Catalog No.: A1435 **KO** Validated

## Basic Information

**Observed MW**

200kDa

**Calculated MW**

432kDa

**Category**

Primary antibody

**Applications**

WB, ELISA

**Cross-Reactivity**

Human, Mouse, Rat

## Background

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.

## Recommended Dilutions

**WB** 1:500 - 1:1000**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

**Gene ID**

4297

**Swiss Prot**

Q03164

**Immunogen**

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

**Synonyms**

HRX; MLL; ALL1; GAS7; HTRX; MLL1; TRX1; ALL-1; CXXC7; HTRX1; MLL1A; WDSTS; 2A

## Contact

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## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

Affinity purification

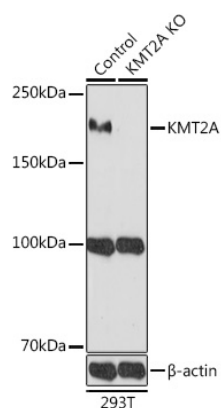
**Storage**

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.

## Validation Data

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Western blot analysis of lysates from wild type (WT) and KMT2A knockout (KO) 293T cells, using [KO Validated] KMT2A Rabbit pAb (A1435) at 1:1000 dilution.

Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 180s.