

## KMT6 Rabbit mAb

Catalog No: #52387

Package Size: #52387-1 50ul #52387-2 100ul

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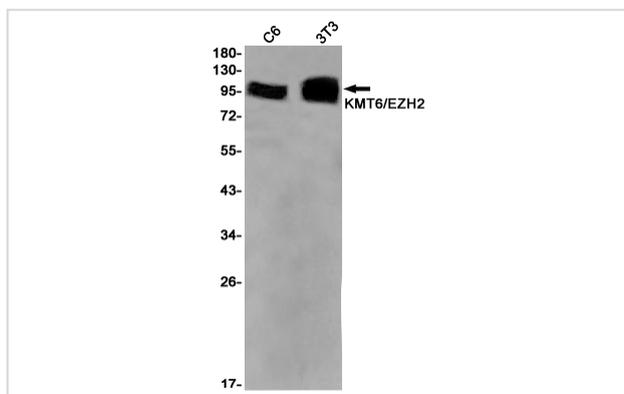
## Description

Product Name	KMT6 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	S07-5B1
Isotype	Rabbit IgG
Purification	Affinity Purified
Applications	WB
Species Reactivity	Human,Mouse,Rat
Immunogen Description	A synthetic peptide of human KMT6/EZH2
Conjugates	Unconjugated
Modification	Unmodification
Other Names	WVS; ENX1; KMT6; WVS2; ENX-1; EZH2b; KMT6A;EZH2
Accession No.	Swiss-Prot:Q15910GeneID:2146
Uniprot	Q15910
GeneID	2146
Calculated MW	Calculated MW: 85 kDa; Observed MW: 98 kDa
Concentration	0.3 mg/ml
Formulation	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Application Details

WB: 1/1000;

## Images



Western blot detection of KMT6/EZH2 in C6,3T3 cell lysates using KMT6/EZH2 Rabbit mAb(1:1000 diluted).Predicted band size:85kDa.Observed band size:98kDa.

## Background

Swiss-Prot Acc.Q15910.Polycomb group (PcG) protein. Catalytic subunit of the PRC2/EED-EZH2 complex, which methylates &#39;Lys-9&#39; (H3K9me) and &#39;Lys-27&#39; (H3K27me) of histone H3, leading to transcriptional repression of the affected target gene. Able to mono-, di- and trimethylate &#39;Lys-27&#39; of histone H3 to form H3K27me1, H3K27me2 and H3K27me3, respectively. Displays a preference for substrates with less methylation, loses activity when progressively more methyl groups are incorporated into H3K27, H3K27me0 > H3K27me1 > H3K27me2 (PubMed:22323599). Compared to EZH1-containing complexes, it is more abundant in embryonic stem cells and plays a major role in forming H3K27me3, which is required for embryonic stem cell identity and proper differentiation. The PRC2/EED-EZH2 complex may also serve as a recruiting platform for DNA methyltransferases, thereby linking two epigenetic repression systems. Genes repressed by the PRC2/EED-EZH2 complex include HOXC8, HOXA9, MYT1, CDKN2A and retinoic acid target genes. EZH2 can also methylate non-histone proteins such as the transcription factor GATA4 and the nuclear receptor RORA. Regulates the circadian clock via histone methylation at the promoter of the circadian genes. Essential for the CRY1/2-mediated repression of the transcriptional activation of PER1/2 by the CLOCK-ARNTL/BMAL1 heterodimer; involved in the di and trimethylation of &#39;Lys-27&#39; of histone H3 on PER1/2 promoters which is necessary for the CRY1/2 proteins to inhibit transcription.

Note: This product is for in vitro research use only