



KDM2A mouse mAb

Catalog No	YP-mAb-18112
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	KDM2A CXXC8 FBL7 FBXL11 JHDM1A KIAA1004
Immunogen	Synthesized peptide derived from human KDM2A
Specificity	This antibody detects endogenous levels of KDM2A at Human, Mouse
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	[Histone-H3]-lysine-36 demethylase 1A;CXXC8;CXXC-type zinc finger protein 8; EC:1.14.11.27;F box protein FBL7;KDM2A;KDM2A CXXC8 FBL7 FBXL11 JHDM1A KIAA1004;Lysine-specific demethylase 2A (EC 1.14.11.27) (CXXC-type zinc finger protein 8) (F-box and leucine-rich repeat protein 11) (F-box protein FBL7) (F-box protein Lilina) (F-box/LRR-repeat protein 11)
Observed Band	126 kDa
Calculated Molecular Weight	1162 aa, 133 kDa
Cell Pathway	Nucleus, nucleoplasm . Chromosome . Punctate expression throughout the nucleoplasm and enriched in the perinucleolar region (PubMed:19001877, PubMed:20417597). Specifically nucleates at CpG islands where it's presence results in chromatin depleted in H3K36me2 (PubMed:19001877, PubMed:20417597). .
Tissue Specificity	Widely expressed, with highest levels in brain, testis and ovary, followed by lung.
Function	Histone demethylase that specifically demethylates 'Lys-36' of histone H3, thereby playing a central role in histone code. Preferentially demethylates dimethylated H3 'Lys-36' residue while it has weak or no activity for mono- and tri-methylated H3 'Lys-36'. May also recognize and bind to some phosphorylated proteins and promote their ubiquitination and degradation. Required to maintain



the heterochromatic state. Associates with centromeres and represses transcription of small non-coding RNAs that are encoded by the clusters of satellite repeats at the centromere. Required to sustain centromeric integrity and genomic stability, particularly during mitosis. Regulates circadian gene expression by repressing the transcriptional activator activity of CLOCK-ARNTL/BMAL1 heterodimer and RORA in a catalytically-independent manner .

Background

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images