PHF8 mouse mAb

Catalog No	BYmab-17284
Isotype	IgG
Reactivity	Human, Mouse
Applications	WB
Gene Name	PHF8 KIAA1111 ZNF422
Protein Name	Histone lysine demethylase PHF8 (EC 1.14.11.27) (PHD finger protein 8)
Immunogen	Synthesized peptide derived from human C-ternal PHF8
Specificity	This antibody detects endogenous levels of PHF8 at Human, Mouse
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Mouse,Monoclonal
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Histone lysine demethylase PHF8 (EC 1.14.11.27) (PHD finger protein 8)
Observed Band	
Cell Pathway	Nucleus . Nucleus, nucleolus . Recruited to H3K4me3 sites on chromatin during interphase (PubMed:20622854). Dissociates from chromatin when cells enter mitosis (PubMed:20622854). .
Tissue Specificity	
Function	Histone lysine demethylase with selectivity for the di- and monomethyl states that plays a key role cell cycle progression, rDNA transcription and brain development. Demethylates mono- and dimethylated histone H3 'Lys-9' residue (H3K9Me1 and H3K9Me2), dimethylated H3 'Lys-27' (H3K27Me2) and monomethylated histone H4 'Lys-20' residue (H4K20Me1). Acts as a transcription activator as H3K9Me1, H3K9Me2, H3K27Me2 and H4K20Me1 are epigenetic repressive marks. Involved in cell cycle progression by being required to control G1-S transition. Acts as a coactivator of rDNA transcription, by activating polymerase I (pol I) mediated transcription of rRNA genes. Required for brain development, probably by regulating expression of neuron-specific genes. Only has activity toward H4K20Me1 when nucleosome is used as a substrate and

	when not histone octamer is used as substrate. May also have weak activity
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.

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