

PHF8 rabbit pAb

Catalog No :	YT8129
Reactivity :	Human;Mouse
Applications :	IHC;WB
Target :	PHF8
Gene Name :	PHF8 KIAA1111 ZNF422
Protein Name :	Histone lysine demethylase PHF8 (EC 1.14.11.27) (PHD finger protein 8)
Human Gene Id :	23133
Human Swiss Prot No :	Q9UPP1
Mouse Gene Id :	320595
Mouse Swiss Prot No :	Q80TJ7
Immunogen :	Synthesized peptide derived from human C-terminal 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 :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000 IHC 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight : 117kD

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

Subcellular Location : Nucleus . Nucleus, nucleolus . Recruited to H3K4me3 sites on chromatin during interphase (PubMed:20622854). Dissociates from chromatin when cells enter mitosis (PubMed:20622854). .

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