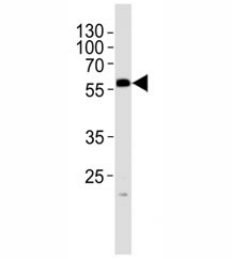
PHF1 Antibody / PHD finger protein 1 (F52578)

Catalog No.	Formulation	Size
F52578-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F52578-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	O43189
Applications	Western blot: 1:1000
Limitations	This PHF1 antibody is available for research use only.



Western blot analysis of lysate from mouse testis tissue lysate using PHF1 antibody at 1:1000.

Description

Polycomb group (PcG) that specifically binds histone H3 trimethylated at 'Lys-36' (H3K36me3) and recruits the PRC2 complex. Involved in DNA damage response and is recruited at double-strand breaks (DSBs). Acts by binding to H3K36me3, a mark for transcriptional activation, and recruiting the PRC2 complex: it is however unclear whether recruitment of the PRC2 complex to H3K36me3 leads to enhance or inhibit H3K27me3 methylation mediated by the PRC2 complex. According to some reports, PRC2 recruitment by PHF1 promotes H3K27me3 and subsequent gene silencing by inducing spreading of PRC2 and H3K27me3 into H3K36me3 loci (PubMed:18285464 and PubMed:23273982). According to another report, PHF1 recruits the PRC2 complex at double-strand breaks (DSBs) and

inhibits the activity of PRC2 (PubMed:23142980). Regulates p53/TP53 stability and prolonges its turnover: may act by specifically binding to a methylated from of p53/TP53.

Application Notes

Titration of the PHF1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

This PHF1 antibody was produced from a rabbit immunized with a KLH conjugated synthetic peptide between 164-197 amino acids from the N-terminal region of human PHF1.

Storage

Aliquot the PHF1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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