10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PHF13 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5064b

Product Information

Application	WB, IHC-P, E
Primary Accession	Q86YI8
Other Accession	Q8K2W6
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB26066
Calculated MW	33582
Antigen Region	263-291

Additional Information

Gene ID	148479
Other Names	PHD finger protein 13, Survival time-associated PHD finger protein in ovarian cancer 1, SPOC1, PHF13
Target/Specificity	This PHF13 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 263-291 amino acids from the C-terminal region of human PHF13.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PHF13 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PHF13 (HGNC:22983)
Function	Modulates chromatin structure and DNA damage response by regulating key determinants of chromatin compaction and DNA damage response

(PubMed:19638409). Binds H3K4me3-containing chromatin and promotes DNA condensation by recruiting corepressors such as TRIM28 and H3K9 methyltransferase SETDB1 (PubMed:23034801). Required for normal chromosome condensation during the early stages of mitosis. Required for normal chromosome separation during mitosis (PubMed:19638409). Increases both chromatin-associated levels and activity of H3K9 methyltransferases, such as SETDB1, thus enhancing H3K9 trimethylation (PubMed:23034801). Essential for testicular stem-cell differentiation and sustained spermatogenesis (By similarity).

Cellular Location

Nucleus. Nucleus, nucleoplasm. Note=Predominantly bound to chromatin, but a minor proportion is also detected in the nucleoplasm

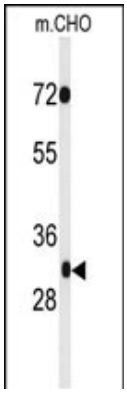
Background

PHF13 contains 1 PHD-type zinc finger. The function of PHF13 is currently unknown.

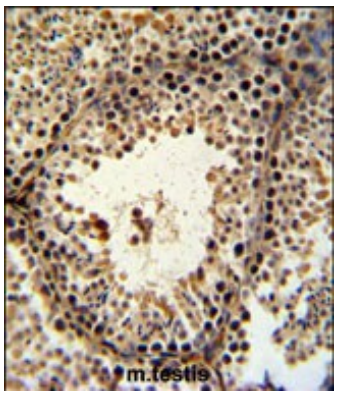
References

Kinkley, S., et al. J. Cell. Sci. 122 (PT 16), 2946-2956 (2009)
Mohrmann, G., et al. Int. J. Cancer 116(4):547-554(2005)

Images



Western blot analysis of PHF13 Antibody (C-term) (Cat. #AP5064b) in CHO cell line lysates (35ug/lane).PHF13(arrow) was detected using the purified Pab.



PHF13 Antibody (C-term) (Cat. #AP5064b) IHC analysis in formalin fixed and paraffin embedded mouse testis tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the PHF13 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.