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

PHF17 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13432a

Product Information

Application	IHC-P, WB, E
Primary Accession	Q6IE81
Other Accession	NP_079176.2
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB15092
Calculated MW	95533
Antigen Region	22-51

Additional Information

Gene ID	79960
Other Names	Protein Jade-1, Jade family PHD finger protein 1, PHD finger protein 17, JADE1, KIAA1807, PHF17
Target/Specificity	This PHF17 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 22-51 amino acids from the N-terminal region of human PHF17.
Dilution	IHC-P~~1:100~500 WB~~1:1000 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	PHF17 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	JADE1
Synonyms	KIAA1807, PHF17

Function	Scaffold subunit of some HBO1 complexes, which have a histone H4 acetyltransferase activity (PubMed:16387653, PubMed:19187766, PubMed:20129055, PubMed:24065767). Plays a key role in HBO1 complex by directing KAT7/HBO1 specificity towards histone H4 acetylation (H4K5ac, H4K8ac and H4K12ac), regulating DNA replication initiation, regulating DNA replication initiation (PubMed:20129055, PubMed:24065767). May also promote acetylation of nucleosomal histone H4 by KAT5 (PubMed:15502158). Promotes apoptosis (PubMed:16046545). May act as a renal tumor suppressor (PubMed:16046545). Negatively regulates canonical Wnt signaling; at least in part, cooperates with NPHP4 in this function (PubMed:22654112).
Cellular Location	Nucleus. Chromosome Cytoplasm Cytoplasm, cytoskeleton, cilium basal body. Note=Localizes to the ciliary transition zone.
Tissue Location	Highly expressed in kidney. Also present in pancreas, liver and heart (at protein level). Down-regulated in renal cancer cells.

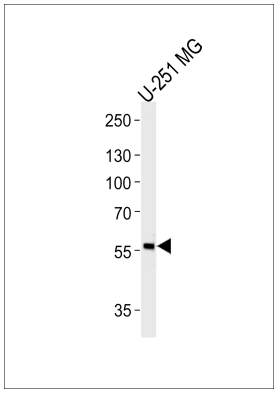
Background

Component of the HBO1 complex which has a histone H4-specific acetyltransferase activity, a reduced activity toward histone H3 and is responsible for the bulk of histone H4 acetylation in vivo. Transcriptional coactivator it may also promote acetylation of nucleosomal histone H4 by KAT5. Promotes apoptosis. May act as a renal tumor suppressor.

References

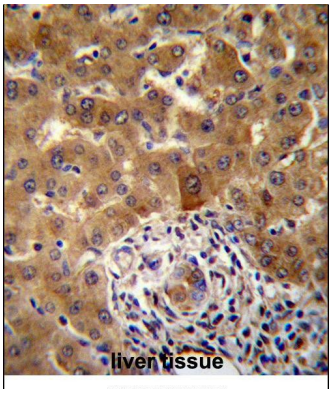
Foy, R.L., et al. J. Biol. Chem. 283(43):28817-28826(2008)
Chitalia, V.C., et al. Nat. Cell Biol. 10(10):1208-1216(2008)
Olsen, J.V., et al. Cell 127(3):635-648(2006)
Lim, J., et al. Cell 125(4):801-814(2006)
Doyon, Y., et al. Mol. Cell 21(1):51-64(2006)

Images



Western blot analysis of lysate from U-251 MG cell line, using PHF17 Antibody (N-term)(Cat. #AP13432a). AP13432a was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug per lane.

PHF17 Antibody (N-term) (Cat. #AP13432a)immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of PHF17 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



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