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

Specification

PHF17 Antibody (N-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q6IE81
Other Accession	NP_079176.2
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**95533**
Antigen Region	**22-51**

PHF17 Antibody (N-term) - 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
WB~~1:1000
IHC-P~~1:10~50
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.

PHF17 Antibody (N-term) - 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.

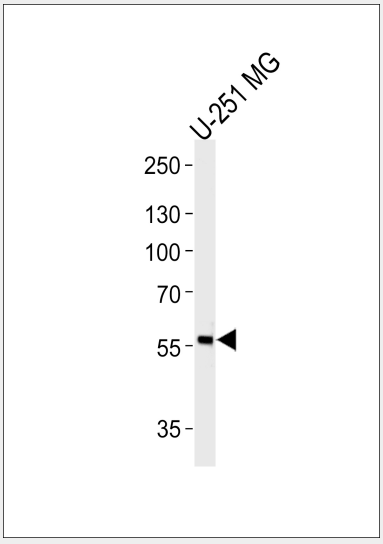
Tissue Location
Highly expressed in kidney. Also present in pancreas, liver and heart (at protein level). Down-regulated in renal cancer cells.

PHF17 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PHF17 Antibody (N-term) - 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.

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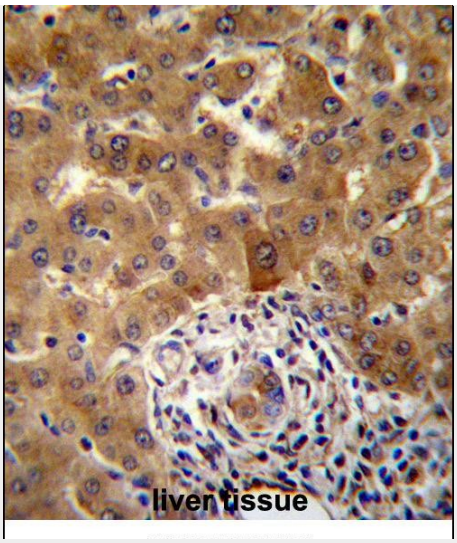

PHF17 Antibody (N-term) (Cat. #AP13432a)immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of PHF17 Antibody (N-term) for immunohistochemistry. Clinical relevance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

PHF17 Antibody (N-term) - 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.

PHF17 Antibody (N-term) - References

Foy, R.L., et al. J. Biol. Chem. 283(43):28817-28826(2008)
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Olsen, J.V., et al. Cell 127(3):635-648(2006)
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Doyon, Y., et al. Mol. Cell 21(1):51-64(2006)