

PHF21A Rabbit pAb

Catalog # AP97936

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q96BD5
Other Accession	Q96BD5
Host	Rabbit
Clonality	Polyclonal
Calculated MW	74854
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PHF21A
Epitope Specificity	351-450/680
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 A.T hook DNA-binding domain. Contains 1 PHD-type zinc finger.
SUBUNIT	Component of a BHC histone deacetylase complex that contains HDAC1, HDAC2, HMG20B/BRAF35, KDM1A, RCOR1/CoREST and PHF21A/BHC80. The BHC complex may also contain ZMYM2, ZNF217, ZMYM3, GSE1 and GTF2I. In the complex, it interacts directly with HDAC1, HDAC2, HMG20B/BRAF35, KDM1A and RCOR1/CoREST.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The PHF21A gene encodes BHC80, a component of a BRAF35 (MIM 605535)/histone deacetylase (HDAC; see MIM 601241) complex (BHC) that mediates repression of neuron-specific genes through the cis-regulatory element known as repressor element-1 (RE1) or neural restrictive silencer (NRS) (Hakimi et al., 2002 [PubMed 12032298]).[supplied by OMIM, Nov 2010]

Additional Information

Gene ID	51317
Other Names	BHC80; BM-006; IDDBCS; NEDMS; 80kDa; BHC80a; Bhc; D030065N23Rik; PFTF1; mBHC80; RGD1560612; PF21A_HUMAN; PHF21A; BRAF35-HDAC complex protein BHC80; KIAA1696; PF21A_MOUSE; BRAF35-HDAC complex protein BHC80 (mBHC80); PHD finger protein 21A
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500 0-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	PHF21A
Synonyms	BHC80, KIAA1696
Function	Component of the BHC complex, a corepressor complex that represses transcription of neuron-specific genes in non-neuronal cells. The BHC complex is recruited at RE1/NRSE sites by REST and acts by deacetylating and demethylating specific sites on histones, thereby acting as a chromatin modifier. In the BHC complex, it may act as a scaffold. Inhibits KDM1A-mediated demethylation of 'Lys-4' of histone H3 in vitro, suggesting a role in demethylation regulation.
Cellular Location	Nucleus.
Tissue Location	Highly expressed in brain (PubMed:31649809). Expressed at lower level in other tissues, including heart, kidney, liver, lung and skeletal muscle (PubMed:31649809). Abundantly expressed in fetal brain (PubMed:31649809).

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