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

PHF21A Rabbit pAb

Catalog # AP97936

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q96BD5
Other Accession	Q96BD5
Predicted	Rat, Pig, Human, Mouse, Rabbit, Chicken, Dog, Horse, Sheep
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=1:5000-10000
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'.