



Rabbit Anti-PHF21A antibody

SL11452R

Product Name:	PHF21A
Chinese Name:	PHD指蛋白21A抗体
Alias:	BHC80 / PHF21A; BHC80a; BM-006; BRAF35-HDAC complex protein BHC80; BRAF35-HDAC complex protein BHC80; BRAF35-HDAC complex protein BHC80; BRAF35/HDAC2 complex (80 kDa); KIAA1696; PF21A_HUMAN; PHD finger protein 21A; PHF21A.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	75kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human PHF21A:351-450/680
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	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]

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.

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.

Subcellular Location:

Nucleus.

Tissue Specificity:

Highly expressed in brain. Expressed at much lower level in other tissues.

Similarity:

Contains 1 A.T hook DNA-binding domain.

Contains 1 PHD-type zinc finger.

SWISS:

Q96BD5

Gene ID:

51317

Database links:

[Entrez Gene: 51317](#) Human

[Entrez Gene: 192285](#) Mouse

[Entrez Gene: 362166](#) Rat

[SwissProt: Q96BD5](#) Human

[SwissProt: Q6ZPK0](#) Mouse

[Unigene: 502458](#) Human

[Unigene: 330408](#) Mouse

[Unigene: 450689](#) Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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