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PHF21A Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16505c

Product Information

Application	WB, E
Primary Accession	Q96BD5
Other Accession	Q6ZPK0, NP_057705.3
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB35968
Calculated MW	74854
Antigen Region	436-464

Additional Information

Gene ID	51317
Other Names	PHD finger protein 21A, BHC80a, BRAF35-HDAC complex protein BHC80, PHF21A, BHC80, KIAA1696
Target/Specificity	This PHF21A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 436-464 amino acids from the Central region of human PHF21A.
Dilution	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	PHF21A Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

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).

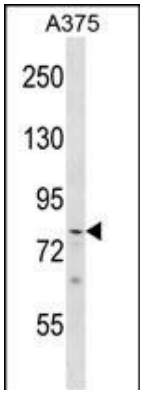
Background

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]).

References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Klajn, A., et al. J. Neurosci. 29(19):6296-6307(2009)
Hailesellasse Sene, K., et al. BMC Genomics 8, 85 (2007) :
Shi, Y.J., et al. Mol. Cell 19(6):857-864(2005)
Iwase, S., et al. Biochem. Biophys. Res. Commun. 322(2):601-608(2004)

Images



PHF21A Antibody (Center) (Cat. #AP16505c) western blot analysis in A375 cell line lysates (35ug/lane).This demonstrates the PHF21A antibody detected the PHF21A protein (arrow).

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