SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-PHF21A antibody

Catalog Number: SL11452R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	PHF21A
Immunogen:	KLH conjugated synthetic peptide derived from human PHF21A: 351-450/680
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:100-500 IF=1:100-500 ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted: Human, Mouse, Rat, Chicken, Dog, Pig, Cow, Horse, Rabbit, Sheep)
Predicted MW.:	75kDa
Subcellular Location:	The nucleus
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]).[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

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	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. **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

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