

**PHF21A Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP16505c****Specification**

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**PHF21A Antibody (Center) Blocking Peptide - Product Information**Primary Accession [Q96BD5](#)**PHF21A Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 51317**Other Names**

PHD finger protein 21A, BHC80a, BRAF35-HDAC complex protein BHC80, PHF21A, BHC80, KIAA1696

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**PHF21A Antibody (Center) Blocking Peptide - 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).

## **PHF21A Antibody (Center) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

## **PHF21A Antibody (Center) Blocking Peptide - Images**

## **PHF21A Antibody (Center) Blocking Peptide - 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 [PubMed12032298]).

## **PHF21A Antibody (Center) Blocking Peptide - 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)Haileselasse 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)