

Datasheet for ABIN7564997
PHF10 Protein (AA 1-497) (His tag)



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Overview

Quantity:	1 mg
Target:	PHF10
Protein Characteristics:	AA 1-497
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PHF10 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Phf10 Protein expressed in mammalian cells.
Sequence:	<p>MTAAGPGAAP SPGRCDSDPA SPGAQSPKDD NEDNSNDGTH PCKRRRMGSG DSSRSCETSS QDLSFSYYP A ENLIEYKWPP DETGEYMLQ EQVSEYLGVT SFKRKYPDL E RRDL SHKEKL YLRELVITE TQCTLGLTAL RSDEVIDLMI KEYPAKHA EY SVILQEKERQ RITDHYKEYS QMQQQSTQKV EASKVPEYIK KAAKKA AEFN SNLNRERMEE RRAYFDLQTH VIQVPQGKYK VLPTDRTKVS SYPVALIPGQ FQEYKYR YSP DELRYLPLNT ALYEPPLDPE LPALDSDGDS DDGEDGGGDE KRKNKGTSDS SSGNVSEGDS PPDSQEDTFH GRQKSKDKMA TPRKDGSKRS VLSKSAPGYK PKVIPNALCG ICLKGKESNK KGKAESLIHC SQCDNSGHPS CLDMTMELVS MIKTYPWQCM ECKT CIICGQ PHHEEEMMFC DVCDRGYHTF CVGLGAIPSG RWICDCCQRA PPTPRKVGRR GKNSKEG Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different

Product Details

isoform, please contact us regarding an individual offer.

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade:

custom-made

Target Details

Target:

PHF10

Alternative Name:

Phf10 ([PHF10 Products](#))

Background:

PHD finger protein 10 (BRG1-associated factor 45a) (BAF45a),FUNCTION: Involved in transcription activity regulation by chromatin remodeling. Belongs to the neural progenitors-specific chromatin remodeling complex (npBAF complex) and is required for the proliferation of neural progenitors. During neural development a switch from a stem/progenitor to a post-mitotic chromatin remodeling mechanism occurs as neurons exit the cell cycle and become committed to their adult state. The transition from proliferating neural stem/progenitor cells to post-mitotic neurons requires a switch in subunit composition of the npBAF and nBAF complexes. As neural progenitors exit mitosis and differentiate into neurons, npBAF complexes which contain ACTL6A/BAF53A and PHF10/BAF45A, are exchanged for homologous alternative ACTL6B/BAF53B and DPF1/BAF45B or DPF3/BAF45C subunits in neuron-specific complexes (nBAF). The npBAF complex is essential for the self-renewal/proliferative capacity of the multipotent neural stem cells. The nBAF complex along with CREST plays a role

Target Details

regulating the activity of genes essential for dendrite growth.
{ECO:0000269|PubMed:17640523}.

Molecular Weight: 55.8 kDa

UniProt: [Q9D8M7](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months