

Datasheet for ABIN7565276
PHF1 Protein (AA 1-559) (His tag)



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Overview

Quantity:	1 mg
Target:	PHF1
Protein Characteristics:	AA 1-559
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PHF1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Phf1 Protein expressed in mammalian cells.
Sequence:	<p>MAQLPRLSRL GAPSLWDPAS PAPTSGPRPR LWEGQDVLAR WTDGLLYLGT IKKVDSAREV CLVQFEDDSQ FLVLWKDISP AALPGEELLC CVCRSETVVP GNRLVSCEKC RHAYHQDCHV PRAPAPGEGE GASWVCRQCV FAIATKRGGG LKKGYPARAM LGMKLSLPYG LKGLDWDAGH LSNRQQSYCY CGGPGEWNLK MLQCRSCLQW FHEACTQCLS KPLLYGDRFY EFECVCVCRGG PEKVRRLQLR WVDVAHLVLY HLSVCCKKKY FDFDREILPF TSENWDSLLL GELSDTPKGE RSSQLLSALN SHKDRFISGR EIKKRKCLFG LHARTPPPVE LLTGDGAPTS FPSGQGPGGG VSRPLGKRWR SEPEPLRRRQ KGKVEELGPP TAAHSRHGSR EQRALQASVS PPPSPNQSY EGSSGYNFRP TDARCLPSSP IRMFASFHPS ASTAGTSGDS EPPDRSPLGL HIGFPTDTPK SSPHSVTASS SSVPALTPGF SRHSPPSPLC RSLSPGTGGG VRGGVSYLSR GDPVRVLARR VRPDGSVQYL VEWGGGGIF 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>

Product Details

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different 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: PHF1

Alternative Name: Phf1 ([PHF1 Products](#))

Background: PHD finger protein 1 (Protein PHF1) (Polycomb-like protein 1) (mPCI1) (T-complex testis-expressed 3),FUNCTION: Polycomb group (PcG) that specifically binds histone H3 trimethylated at 'Lys-36' (H3K36me3) and recruits the PRC2 complex. Involved in DNA damage response and is recruited at double-strand breaks (DSBs). Acts by binding to H3K36me3, a mark for transcriptional activation, and recruiting the PRC2 complex: it is however unclear whether recruitment of the PRC2 complex to H3K36me3 leads to enhance or inhibit H3K27me3 methylation mediated by the PRC2 complex. According to some reports, PRC2 recruitment by PHF1 promotes H3K27me3 and subsequent gene silencing by inducing spreading of PRC2 and H3K27me3 into H3K36me3 loci (PubMed:18086877). According to other reports, PHF1 recruits the PRC2 complex at double-strand breaks (DSBs) and inhibits the activity of PRC2. Regulates p53/TP53 stability and prolongs its turnover: may act by specifically binding to a methylated

Target Details

from of p53/TP53. {ECO:0000269|PubMed:18086877}.

Molecular Weight: 61.1 kDa

UniProt: [Q9Z1B8](#)

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