

**PHF19 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP17707b****Specification**

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**PHF19 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [Q5T6S3](#)**PHF19 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 26147**Other Names**

PHD finger protein 19, Polycomb-like protein 3, hPCL3, PHF19, PCL3

**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.

**PHF19 Antibody (C-term) Blocking Peptide - Protein Information****Name** PHF19**Synonyms** PCL3**Function**

Polycomb group (PcG) protein that specifically binds histone H3 trimethylated at 'Lys-36' (H3K36me3) and recruits the PRC2 complex, thus enhancing PRC2 H3K27me3 methylation activity (PubMed: [15563832](http://www.uniprot.org/citations/15563832)), PubMed: [18691976](http://www.uniprot.org/citations/18691976), PubMed: [23160351](http://www.uniprot.org/citations/23160351), PubMed: [23228662](http://www.uniprot.org/citations/23228662), PubMed: [23273982](http://www.uniprot.org/citations/23273982), PubMed: [29499137](http://www.uniprot.org/citations/29499137), PubMed: [23104054](http://www.uniprot.org/citations/23104054), PubMed: [31959557](http://www.uniprot.org/citations/31959557)). Probably involved in the transition from an active state to a repressed state in embryonic stem cells: acts by binding to H3K36me3, a mark for transcriptional activation, and recruiting H3K36me3 histone demethylases RIOX1 or KDM2B, leading to demethylation of H3K36 and recruitment of the PRC2 complex that mediates H3K27me3 methylation, followed by de novo silencing (PubMed: [23160351](http://www.uniprot.org/citations/23160351)). Recruits the PRC2 complex to CpG islands and contributes to

embryonic stem cell self- renewal. Also binds histone H3 dimethylated at 'Lys-36' (H3K36me2) (PubMed:<a href="http://www.uniprot.org/citations/23104054" target="\_blank">23104054</a>). Isoform 1 and isoform 2 inhibit transcription from an HSV-tk promoter (PubMed:<a href="http://www.uniprot.org/citations/15563832" target="\_blank">15563832</a>).

**Cellular Location**

Nucleus. Note=Localizes to chromatin as part of the PRC2 complex.

**Tissue Location**

Isoform 1 is expressed in thymus, heart, lung and kidney. Isoform 2 is predominantly expressed in placenta, skeletal muscle and kidney, whereas isoform 1 is predominantly expressed in liver and peripheral blood leukocytes. Overexpressed in many types of cancers, including colon, skin, lung, rectal, cervical, uterus, liver cancers, in cell lines derived from different stages of melanoma and in glioma cell lines.

**PHF19 Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**PHF19 Antibody (C-term) Blocking Peptide - Images****PHF19 Antibody (C-term) Blocking Peptide - Background**

PHF19 acts as a transcriptional repressor. Isoform 1 and isoform 2 inhibit transcription from an HSV-tk promoter.

**PHF19 Antibody (C-term) Blocking Peptide - References**

Gregersen, P.K., et al. Nat. Genet. 41(7):820-823(2009)Lamesch, P., et al. Genomics 89(3):307-315(2007)Oh, J.H., et al. Mamm. Genome 16(12):942-954(2005)Wang, S., et al. Gene 343(1):69-78(2004)