PHF1 Blocking Peptide

PRODUCT OVERVIEW

Product Name	PHF1, Blocking Peptide
Full Product Name	PHF1 Peptide
Product Gene Name	PHF1 blocking peptide
Product Synonym Gene Name	PHF2; PCL1; MTF2L2
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	PHF1 peptide (MBS3229688) is used for blocking the activity of PHF1 antibody (MBS3204723)
Molecular Weight	62kDa
OMIM	602881
Product Categories/Family for PHF1 blocking peptide	Peptide
Applications Tested/Suitable for PHF1 blocking peptide	Western Blot (WB)
Related Product Information for PHF1 blocking peptide	This is a synthetic peptide designed for use in combination with anti-PHF1 antibody made Target Description: PHF1 has significant sequence similarity with Drosophila Polycomblike. It contains a zinc finger-like PHD (plant homeodomain) finger which is distinct from other classes of zinc finger motifs and which shows the typical Cys4-His-Cys3 arrangement. PHD finger genes are thought to belong to a diverse group of transcriptional regulators possibly affecting eukaryotic gene expression by influencing chromatin structure. This gene encodes a protein with significant sequence similarity to Drosophila Polycomblike. The encoded protein contains a zinc finger-like PHD (plant homeodomain) finger which is distinct from other classes of zinc finger motifs and which shows the typical Cys4-His-Cys3 arrangement. PHD finger genes are thought to belong to a diverse group of transcriptional regulators possibly affecting eukaryotic gene expression by influencing chromatin structure. Two transcript variants have been found for this gene.This gene encodes a protein with significant sequence similarity to Drosophila Polycomblike. The encoded protein contains a zinc finger-like PHD (plant homeodomain) finger which is distinct from other classes of zinc finger motifs and which shows the typical Cys4-His-Cys3 arrangement. PHD finger genes are thought to belong to a diverse group of transcriptional regulators possibly affecting eukaryotic gene expression by influencing chromatin structure. Two transcript variants have been found for this gene.
Other Notes	Small volumes of PHF1 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PHF1 purchase	MBS3229688 is a blocking peptide targeting PHF1. Also known as PHF1 Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PHF1. It may not necessarily be applicable to this product.

NCBI GI #	13435397
NCBI GeneID	5252
NCBI Accession #	NP_077084
UniProt Primary Accession #	O43189

UniProt Related Accession #	O43189
GenBank Nucleotide #	NM_024165
NCBI Official Full Name	PHD finger protein 1 isoform b
NCBI Official Synonym Full Names	PHD finger protein 1
NCBI Official Symbol	PHF1
NCBI Official Synonym Symbols	PCL1; PHF2; hPHF1; MTF2L2; TDRD19C
UniProt Protein Name	PHD finger protein 1
UniProt Synonym Protein Names	Polycomb-like protein 1
Protein Family	PHD finger protein
UniProt Gene Name	PHF1
UniProt Synonym Gene Names	PCL1; Protein PHF1; hPHF1; hPCl1
UniProt Entry Name	PHF1_HUMAN
NCBI Protein Information	PHD finger protein 1
NCBI Summary for PHF1	This gene encodes a Polycomb group protein. The protein is a component of a histone H3 lysine-27 (H3K27)-specific methyltransferase complex, and functions in transcriptional repression of homeotic genes. The protein is also recruited to double-strand breaks, and reduced protein levels results in X-ray sensitivity and increased homologous recombination. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2009]
UniProt Comments for PHF1	PHF1: Transcriptional repressor. May promote methylation of histone H3 on 'Lys-27' by the PRC2/EED-EZH2 complex. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Transcription factor Chromosomal Location of Human Ortholog: 6p21.3 Cellular Component: nucleoplasm; ESC/E(Z) complex; cytoplasm; microtubule organizing center; nucleus Molecular Function: zinc ion binding; transcription factor activity; methylated histone residue binding Biological Process: transcription, DNA-dependent; regulation of transcription, DNA-dependent; negative regulation of gene expression, epigenetic; gene expression; chromatin modification; response to DNA damage stimulus; regulation of gene expression, epigenetic
Research Articles on PHF1	**1.** the increase of DNA accessibility within the H3K36me3-containing nucleosome, instigated by the Tudor domain of PHF1 binding to H3K36me3, is dramatically enhanced by the PHF1 N-terminal domain.
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