PHF1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	PHF1, Monoclonal Antibody
Full Product Name	PHF1 (PHD Finger Protein 1, MTF2L2, PCL1, PHF2) (MaxLight 490)
Product Gene Name	anti-PHF1 antibody
Product Synonym Names	PHD Finger Protein 1; MTF2L2; PCL1; PHF2
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	4F5
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified
Specificity	Recognizes PHF1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	62kDa
OMIM	602881
3D Structure	ModBase 3D Structure for O43189
Immunogen	PHF1 (NP_077084, 2aa-100aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	AQPPRLSRSGASSLWDPASPAPTSGPRPRLWEGQDVLARWTDGLLYLGTIKKVDSAREVCLVQFEDDSQFLVLWKDISPAALPGEELLCCVCRSETVVP
Conjugate	MaxLight490
Product Categories/Family for anti-PHF1 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-PHF1 antibody	Western Blot (WB)
Application Notes for anti-PHF1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-PHF1 antibody	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]

Other Notes	Small volumes of anti-PHF1 antibody 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	MBS6207889 is an antibody targeting PHF1. Also known as PHF1 (PHD Finger Protein 1, MTF2L2, PCL1, PHF2) (MaxLight 490). Host: Mouse.

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
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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