

Rabbit PHF1 Polyclonal Antibody | anti-PHF1 antibody

PHF1 Antibody

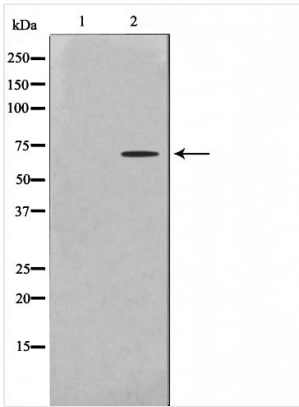
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA320961	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

PHF1; Polyclonal Antibody; PHF1 Antibody; hPCI1; MTF2 L2; MTF2L 2; MTF2L2; PCL 1; PCL1; PHD finger protein 1; PHD finger protein1; PHF 1; PHF 2; Phf1; PHF1_HUMAN; PHF2; Plc 1; Plc1; Polycomb like protein 1; Polycomb like protein1; Polycomb-like protein 1; Protein PHF1; T complex testis expressed 3; T complex testis expressed3; Tctex 3; Tctex3; anti-PHF1 antibody

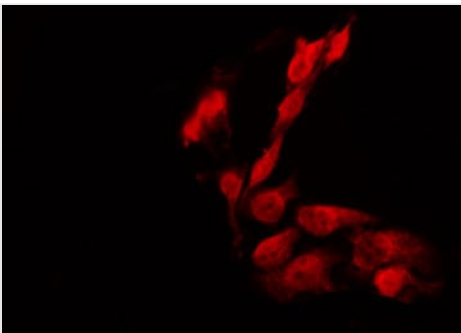
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PHF1 antibody detects endogenous levels of total PHF1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	457
Applicable Applications for anti-PHF1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PHF1
Subcellular Location	Nucleus. Localizes specifically to the promoters of numerous target genes.
Tissue Specificity	Highest levels in heart, skeletal muscle, and pancreas, lower levels in brain, placenta, lung, liver and kidney.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)

Western blot analysis on HeLa cell lysate using PHF1 Antibody. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA320961 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-PHF1 antibody

Description: PHF1 Transcriptional repressor. May promote methylation of histone H3 on 'Lys-27' by the PRC2/EED-EZH2 complex. Interacts with CHMP1. Interacts with the PRC2 complex. 2 isoforms of the human protein are produced by alternative splicing.

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:18285464 and PubMed:23273982). According to another report, PHF1 recruits the PRC2 complex at double-strand breaks (DSBs) and inhibits the activity of PRC2 (PubMed:23142980). Regulates p53/TP53 stability and prolonges its turnover: may act by specifically binding to a methylated form of p53/TP53.

Subunit Structure: Interacts with CHMP1 (By similarity). Associated component of the PRC2 complex. Interacts with p53/TP53.

Similarity: The Tudor domain recognizes and binds H3K36me3 (PubMed:23228662, PubMed:23273982 and PubMed:23142980). Belongs to the Polycomblike family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505777
NCBI GeneID	5252
NCBI Accession #	NP_002627.1
NCBI GenBank Nucleotide #	NM_002636.4
UniProt Accession #	O43189; O60929; Q5SU07; Q5SU08; Q96KM7; B1AZX2; B1AZX3
Molecular Weight	Observed: 62 kDa Predicted: 63 kDa
NCBI Official Full Name	PHD finger protein 1 isoform a
NCBI Official Synonym Full Names	PHD finger protein 1
NCBI Official Symbol	PHF1
NCBI Official Synonym Symbols	PCL1; PHF2; hPHF1; MTF2L2; TDRD19C
NCBI Protein Information	PHD finger protein 1
UniProt Protein Name	PHD finger protein 1

UniProt Gene Name	PHF1
UniProt Synonym Gene Names	PCL1; Protein PHF1; hPHF1; hPCI1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/phf1-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/320961>