

Immunotag™ PHF1 Antibody

Antibody Specification	
Catalog No.	ITA3909
Product Description	Immunotag™ PHF1 Antibody
Size	100 µg, 200 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	PHF1
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IF/ICC,ELISA
Recommended Dilution	WB 1:1000-3000, IF/ICC 1:100-1:500
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	A synthesized peptide derived from human PHF1
Specificity	PHF1 Antibody detects endogenous levels of total PHF1
Purification	The antiserum was purified by peptide affinity chromatography.
Form	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt
Gene Name	PHF1
Accession No.	O43189
Alternate Names	hPCL1; 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;

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Description	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 prolongs its turnover: may act by specifically binding to a methylated form of p53/TP53.
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	62 KD
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.