

ARG44068 anti-PHF1 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal recognizes PHF1
Tested Reactivity	Hu, Ms, Rat
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	PHF1
Species	Human
Immunogen	Human PHF1 recombinant protein (Position: L31-H491).
Conjugation	Un-conjugated
Alternate Names	PHF1; PHD Finger Protein 1; PCL1; TDRD19C; MTF2L2; Tudor Domain Containing 19C; Polycomb-Like Protein 1; Polycomb-Like 1; HPHF1; HPC1; Testicular Tissue Protein Li 140; Protein PHF1; PHF2

Application Instructions

Application table	Application	Dilution
	WB	0.25 - 0.5 µg/ml
Application Note	The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

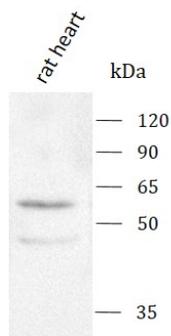
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	PHF1
Gene Full Name	PHD Finger Protein 1
Background	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.
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.
Calculated Mw	62 kDa
PTM	Phosphoprotein
Cellular Localization	Cytoplasm, Cytoskeleton, Nucleus

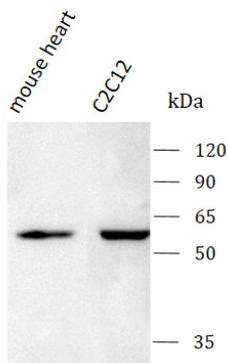
Images

ARG44068 anti-PHF1 antibody WB image



Western blot: rat heart stained with ARG44068 anti-PHF1 antibody at 0.5 µg/mL dilution.

ARG44068 anti-PHF1 antibody WB image



Western blot: mouse heart and mouse C2C12 stained with ARG44068 anti-PHF1 antibody at 0.5 µg/mL dilution.