



Rabbit Anti-PHC1 antibody

SL12302R

Product Name:	PHC1
Chinese Name:	早期发育调控蛋白1/EDR1抗体
Alias:	Early development regulatory protein 1; EDR1 PH1; hPH1; mPH1; PH1; EDR1; Polyhomeotic-like protein 1; Rae28; PHC1_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Rabbit,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	105kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from Human EDR1/PHC1:751-900/1004
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	PHC1 is a 1,004 amino acid nuclear protein that is a component of the PcG multiprotein PRC1 complex. Specifically, the PcG PRC1 complex modifies histones, remodels chromatin and mediates monoubiquitination of Histone H2A. Other constituent proteins involved in the PcG PRC1 complex are Mel-18, Bmi-1, M33, MPc2, MPc3, RING1, Ring1b, as well as several others. Existing as a homodimer, PHC1 contains one FCS-type zinc finger and a SAM (sterile alpha motif) domain. PHC1 is encoded by a gene

located on human chromosome 12, which encodes over 1,100 genes and comprises approximately 4.5% of the human genome.

Function:

PHC1 is a homolog of the *Drosophila* polyhomeotic gene, which is a member of the Polycomb group of genes. The Polycomb group (PcG) genes are essential for maintenance of appropriate expression patterns of developmental master regulators, such as Hox genes, and thus are essential for proper development. PHC1 is a component of a multimeric protein complex that contains EDR2 and the vertebrate Polycomb protein BMH1. PHC1, the EDR2 protein, and the *Drosophila* polyhomeotic protein share 2 highly conserved domains, named homology domains I and II. These domains are involved in protein-protein interactions and may mediate heterodimerization of the protein encoded by this gene and the EDR2 protein.

Subcellular Location:

Nuclear.

Similarity:

Contains 1 FCS-type zinc finger.

Contains 1 SAM (sterile alpha motif) domain.

SWISS:

P78364

Gene ID:

1911

Database links:

[Entrez Gene: 1911](#) Human

[Omin: 602978](#) Human

[SwissProt: P78364](#) Human

[Unigene: 305985](#) Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.