

PHC2 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP16122c**Specification**

PHC2 Antibody (Center) Blocking Peptide - Product Information

Primary Accession [Q8IXK0](#)

PHC2 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 1912

Other Names

Polyhomeotic-like protein 2, hPH2, Early development regulatory protein 2, PHC2, EDR2, PH2

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PHC2 Antibody (Center) Blocking Peptide - Protein Information

Name PHC2

Synonyms EDR2, PH2

Function

Component of a Polycomb group (PcG) multiprotein PRC1-like complex, a complex class required to maintain the transcriptionally repressive state of many genes, including Hox genes, throughout development. PcG PRC1 complex acts via chromatin remodeling and modification of histones; it mediates monoubiquitination of histone H2A 'Lys-119', rendering chromatin heritably changed in its expressibility.

Cellular Location

Nucleus.

PHC2 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

PHC2 Antibody (Center) Blocking Peptide - Images**PHC2 Antibody (Center) Blocking Peptide - Background**

In *Drosophila melanogaster*, the 'Polycomb' group (PcG) of genes are part of a cellular memory system that is responsible for the stable inheritance of gene activity. PcG proteins form a large multimeric, chromatin-associated protein complex. The protein encoded by this gene has homology to the *Drosophila* PcG protein 'polyhomeotic' (Ph) and is known to heterodimerize with EDR1 and colocalize with BMI1 in interphase nuclei of human cells. The specific function in human cells has not yet been determined. Two transcript variants encoding different isoforms have been found for this gene.

PHC2 Antibody (Center) Blocking Peptide - References

Wu, H., et al. Biochem. Biophys. Res. Commun. 397(3):391-396(2010) Rose, J.E., et al. Mol. Med. 16(7-8), 247-253 (2010) : Matsuoka, S., et al. Science 316(5828):1160-1166(2007) Wang, H., et al. Nature 431(7010):873-878(2004) Beausoleil, S.A., et al. Proc. Natl. Acad. Sci. U.S.A. 101(33):12130-12135(2004)