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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

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PHC2 Antibody (Center) Blocking Peptide - Images

PHC2 Antibody (Center) Blocking Peptide - Background

In Drosophila melanogaster, the 'Polycomb' group (PcG) ofgenes are part of a cellular memory system that is responsible forthe stable inheritance of gene activity. PcG proteins form a largemultimeric, chromatin-associated protein complex. The proteinencoded by this gene has homology to the Drosophila PcG protein'polyhomeotic' (Ph) and is known to heterodimerize with EDR1 andcolocalize with BMI1 in interphase nuclei of human cells. Thespecific function in human cells has not yet been determined. Twotranscript variants encoding different isoforms have been found forthis 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)