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BMI Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP2513c

Specification

BMI Antibody (Center) Blocking Peptide - Product Information

Primary Accession P35226

BMI Antibody (Center) Blocking Peptide - Additional Information

Gene ID 100532731;648

Other Names
Polycomb complex protein BMI-1, Polycomb group RING finger protein 4, RING finger protein 51, BMI1, PCGF4, RNF51

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP2513c was selected from the Center region of human BMI . A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

BMI Antibody (Center) Blocking Peptide - Protein Information

Name BMI1

Synonyms PCGF4, RNF51

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 (PubMed:15386022, PubMed:16359901, PubMed:26151332, PubMed:16714294, PubMed:<a href="http://www.uniprot.org/citations/21772249"

target="_blank">21772249, PubMed:25355358, PubMed:27827373). The complex composed of RNF2, UB2D3 and BMI1 binds nucleosomes, and has activity only with nucleosomal histone H2A (PubMed:21772249, PubMed:25355358). In the PRC1-like complex, regulates the E3 ubiquitin-protein ligase activity of RNF2/RING2 (PubMed:15386022, PubMed:26151332, PubMed:21772249).

Cellular Location
Nucleus. Cytoplasm

BMI Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

BMI Antibody (Center) Blocking Peptide - Images

BMI Antibody (Center) Blocking Peptide - Background

BMI is a component of the Polycomb group (PcG) multiprotein PRC1 complex, a complex 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. In the PRC1 complex, it is required to stimulate the E3 ubiquitin ligase activity of RNF2/RING2. BMI cooperates with the MYC oncogene to produce B-lymphomas.

BMI Antibody (Center) Blocking Peptide - References

Smith, K.S., et al., Mol. Cell 12(2):393-400 (2003).Xia, Z.B., et al., Proc. Natl. Acad. Sci. U.S.A. 100(14):8342-8347 (2003).Itahana, K., et al., Mol. Cell. Biol. 23(1):389-401 (2003).Dimri, G.P., et al., Cancer Res. 62(16):4736-4745 (2002).Bardos, J.I., et al., J. Biol. Chem. 275(37):28785-28792 (2000).