

**BMI1 Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP2513B**

**Specification**

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**BMI1 Antibody (C-term) - Product Information**

Application	<b>WB, IHC-P,E</b>
Primary Accession	<a href="#">P35226</a>
Other Accession	<a href="#">P25916</a> , <a href="#">Q5SDR3</a> , <a href="#">Q32KX7</a>
Reactivity	<b>Human</b>
Predicted	<b>Bovine, Chicken, Mouse</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Antigen Region	<b>257-286</b>

**BMI1 Antibody (C-term) - 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**

This BMI1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 257-286 amino acids from the C-terminal region of human BMI1.

**Dilution**

WB~~1:1000  
IHC-P~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

BMI1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**BMI1 Antibody (C-term) - 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:[16714294](#), PubMed:[21772249](#), PubMed:[25355358](#), PubMed:[26151332](#), 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:[21772249](#), PubMed:[26151332](#)).

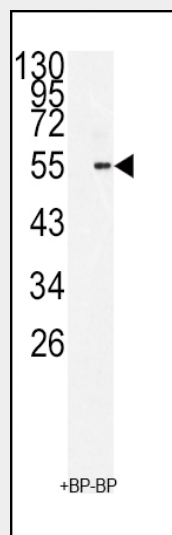
**Cellular Location**

Nucleus. Cytoplasm

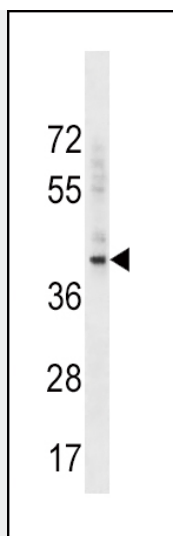
**BMI1 Antibody (C-term) - Protocols**

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

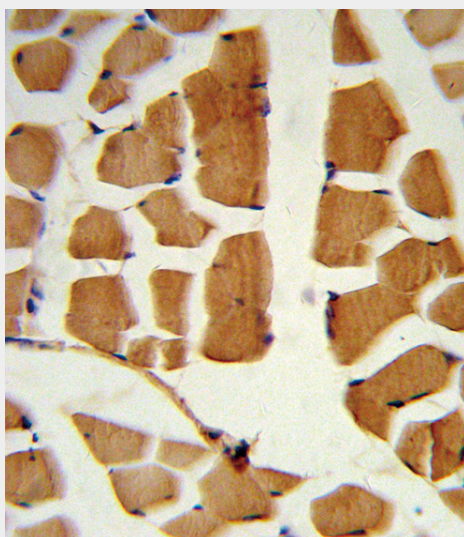
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**BMI1 Antibody (C-term) - Images**

Western blot analysis of BMI1 Antibody (C-term) antibody (Cat. #AP2513b) in 293 cell line lysates (35ug/lane). BMI1 (arrow) was detected using the purified Pab.



BMI1 Antibody (C-term) (Cat. #AP2513b) western blot analysis in K562 cell line lysates (35ug/lane). This demonstrates the BMI1 antibody detected the BMI1 protein (arrow).



Formalin-fixed and paraffin-embedded human skeletal muscle reacted with BMI1 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

### **BMI1 Antibody (C-term) - 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.

### **BMI1 Antibody (C-term) - 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).

**BMI1 Antibody (C-term) - Citations**

- [Sonic hedgehog regulates Bmi1 in human medulloblastoma brain tumor-initiating cells.](#)
- [Severe polyposis in Apc\(1322T\) mice is associated with submaximal Wnt signalling and increased expression of the stem cell marker Lgr5.](#)
- [Bmi1 lineage tracing identifies a self-renewing pancreatic acinar cell subpopulation capable of maintaining pancreatic organ homeostasis.](#)