

**BMI1 Antibody**  
**Mouse Monoclonal Antibody (Mab)**  
**Catalog # AM1930b**

**Specification**

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**BMI1 Antibody - Product Information**

Application	IF, WB,E
Primary Accession	<a href="#">P35226</a>
Other Accession	<a href="#">NP_005171.4</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1,k
Calculated MW	36949

**BMI1 Antibody - 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 monoclonal antibody is generated from mouse immunized with BMI1 recombinant protein.

**Dilution**

IF~~1:10~50

WB~~1:1000

**Format**

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

**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 is for research use only and not for use in diagnostic or therapeutic procedures.

**BMI1 Antibody - 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 - Protocols

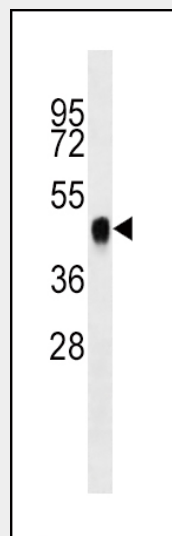
Provided below are standard protocols that you may find useful for product applications.

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

#### BMI1 Antibody - Images

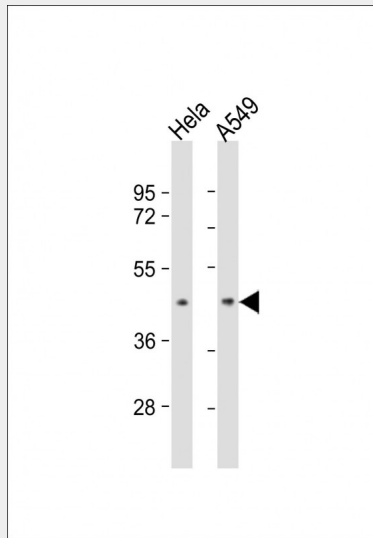
Image not found : 201108/AM1930b\_if\_1.jpg

Confocal immunofluorescent analysis of BMI1 Antibody (Cat#AM1930b) with NCI-H460 cell followed by Alexa Fluor® 488-conjugated goat anti-mouse IgG (green). Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red). DAPI was used to stain the cell nuclear (blue).



BMI1 Antibody (Cat. #AM1930b) western blot analysis in K562 cell line lysates (35µg/lane). This

demonstrates the BMI1 antibody detected the BMI1 protein (arrow).



All lanes : Anti-BMI1 Antibody at 1:1000 dilution Lane 1: HeLa whole cell lysate Lane 2: A549 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 37 kDa Blocking/Dilution buffer: 5% NFDN/TBST.

### **BMI1 Antibody - Background**

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-protein ligase activity of RNF2/RING2.

### **BMI1 Antibody - References**

Ismail, I.H., et al. J. Cell Biol. 191(1):45-60(2010)  
Yang, M.H., et al. Nat. Cell Biol. 12(10):982-992(2010)  
Kikuchi, J., et al. Cancer 116(12):3015-3024(2010)  
Honig, A., et al. Anticancer Res. 30(5):1559-1564(2010)  
Venkataraman, S., et al. PLoS ONE 5 (6), E10748 (2010) :

### **BMI1 Antibody - Citations**

- [Bmi-1-RING1B prevents GATA4-dependent senescence-associated pathological cardiac hypertrophy by promoting autophagic degradation of GATA4](#)