

# BMI1 Antibody

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP8756a

## Product Information

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<b>Application</b>	WB, IHC-P, IF, FC, E
<b>Primary Accession</b>	<a href="#">P35226</a>
<b>Reactivity</b>	Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB22858
<b>Calculated MW</b>	36949

## Additional Information

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<b>Gene ID</b>	100532731;648
<b>Other Names</b>	Polycomb complex protein BMI-1, Polycomb group RING finger protein 4, RING finger protein 51, BMI1, PCGF4, RNF51
<b>Target/Specificity</b>	This BMI1 antibody is generated from rabbits immunized with BMI1 recombinant protein.
<b>Dilution</b>	WB~~1:1000 IHC-P~~1:100~500 IF~~1:10~50 FC~~1:10~50 E~~Use at an assay dependent concentration.
<b>Format</b>	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.
<b>Storage</b>	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.
<b>Precautions</b>	BMI1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	BMI1
<b>Synonyms</b>	PCGF4, RNF51
<b>Function</b>	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

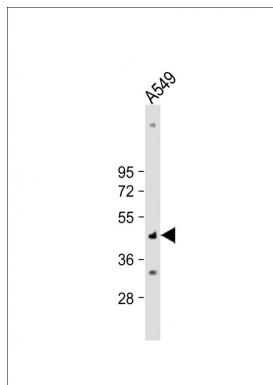
## Background

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.

## References

Chagraoui J., et.al., Genes Dev. 20:2110-2120(2006).

## Images



Anti-BMI1 Antibody at 1:2000 dilution + A549 whole cell lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 37 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

## Citations

- [Role of epigenetic regulation on the induction of apoptosis in Jurkat leukemia cells by white grape pomace rich in phenolic compounds.](#)
- [Characterisation of Cultured Mesothelial Cells Derived from the Murine Adult Omentum.](#)
- [Overexpression of Bmi1 in Lymphocytes Stimulates Skeletogenesis by Improving the Osteogenic Microenvironment.](#)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.