

**BMI1 (aa237-251) Antibody (internal region)**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF4118a****Specification**

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**BMI1 (aa237-251) Antibody (internal region) - Product Information**

|                   |                                                                                   |
|-------------------|-----------------------------------------------------------------------------------|
| Application       | WB                                                                                |
| Primary Accession | <a href="#">P35226</a>                                                            |
| Other Accession   | <a href="#">NP_005171.4</a> , <a href="#">648</a> , <a href="#">12151 (mouse)</a> |
| Reactivity        | Human                                                                             |
| Predicted         | Mouse, Pig, Dog                                                                   |
| Host              | Goat                                                                              |
| Clonality         | Polyclonal                                                                        |
| Concentration     | 0.5 mg/ml                                                                         |
| Isotype           | IgG                                                                               |
| Calculated MW     | 36949                                                                             |

**BMI1 (aa237-251) Antibody (internal region) - 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

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

BMI1 (aa237-251) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**BMI1 (aa237-251) Antibody (internal region) - 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:<a href="http://www.uniprot.org/citations/15386022" target="\_blank">15386022</a>, PubMed:<a href="http://www.uniprot.org/citations/16359901" target="\_blank">16359901</a>, PubMed:<a href="http://www.uniprot.org/citations/26151332" target="\_blank">26151332</a>, PubMed:<a href="http://www.uniprot.org/citations/16714294" target="\_blank">16714294</a>, PubMed:<a href="http://www.uniprot.org/citations/21772249" target="\_blank">21772249</a>, PubMed:<a href="http://www.uniprot.org/citations/25355358" target="\_blank">25355358</a>, PubMed:<a href="http://www.uniprot.org/citations/27827373" target="\_blank">27827373</a>). The complex composed of RNF2, UB2D3 and BMI1 binds nucleosomes, and has activity only with nucleosomal histone H2A (PubMed:<a href="http://www.uniprot.org/citations/21772249" target="\_blank">21772249</a>, PubMed:<a href="http://www.uniprot.org/citations/25355358" target="\_blank">25355358</a>). In the PRC1-like complex, regulates the E3 ubiquitin-protein ligase activity of RNF2/RING2 (PubMed:<a href="http://www.uniprot.org/citations/15386022" target="\_blank">15386022</a>, PubMed:<a href="http://www.uniprot.org/citations/26151332" target="\_blank">26151332</a>, PubMed:<a href="http://www.uniprot.org/citations/21772249" target="\_blank">21772249</a>).

### Cellular Location

Nucleus. Cytoplasm

### BMI1 (aa237-251) Antibody (internal region) - 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 (aa237-251) Antibody (internal region) - Images



AF4118a (0.1 µg/ml) staining of K562 nuclear lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

### BMI1 (aa237-251) Antibody (internal region) - References

A positive feedback loop regulates the expression of polycomb group protein BMI1 via WNT signaling pathway. Cho JH, Dimri M, Dimri GP. The Journal of biological chemistry 2013 Feb 288 (5): 3406-18. PMID: 23239878