10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# KD-Validated Anti-Bmi1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI2369

## Product Information

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| **Application** | WB, ICC |
| **Primary Accession** | P35226 |
| **Reactivity** | Rat, Human |
| **Clonality** | Monoclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | 23GB685 |
| **Calculated MW** | 36949 |
| **Gene Name** | BMI1 |
| **Aliases** | BMI1 Proto-Oncogene, Polycomb Ring Finger; RNF51; PCGF4; Polycomb Group RING Finger Protein 4; Polycomb Complex Protein BMI-1; B Lymphoma Mo-MLV Insertion Region 1 Homolog (Mouse); Murine Leukemia Viral (Bmi-1) Oncogene Homolog; B Lymphoma Mo-MLV Insertion Region 1 Homolog; BMI1 Polycomb Ring Finger Proto-Oncogene; BMI1 Polycomb Ring Finger Oncogene; Polycomb Group Ring Finger 4; Polycomb Group Protein Bmi1; Ring Finger Protein 51; RING Finger Protein 51; Flvi-2/Bmi-1; FLVI2/BMI1 |
| **Immunogen** | A synthesized peptide derived from human BMI1 |

## Additional Information

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| **Gene ID** | 100532731;648 |
| **Other Names** | Polycomb complex protein BMI-1, Polycomb group RING finger protein 4, RING finger protein 51, BMI1, PCGF4, RNF51 |

## Protein Information

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| **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). |

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| **Cellular Location** | Nucleus. Cytoplasm |

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