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KD-Validated Anti-Bmi1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI2369

Specification

KD-Validated Anti-Bmi1 Rabbit Monoclonal Antibody - Product Information

Application	**WB, ICC**
Primary Accession	P35226
Reactivity	**Rat, Human**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 37 kDa ; Observed, 40 kDa KDa**
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**

KD-Validated Anti-Bmi1 Rabbit Monoclonal 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

KD-Validated Anti-Bmi1 Rabbit Monoclonal 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:<a href="http://www.uniprot.org/citations/15386022"

target="_blank">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).

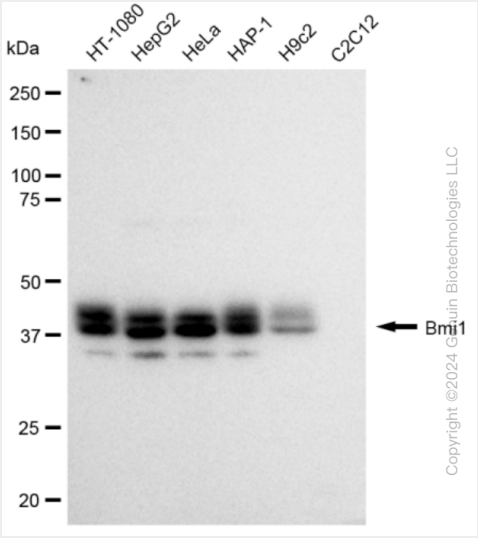
Cellular Location
Nucleus. Cytoplasm

KD-Validated Anti-Bmi1 Rabbit Monoclonal 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 Cytomety
- Cell Culture

KD-Validated Anti-Bmi1 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Bmi1 antibody (Cat#AGI2369). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Bmi1 antibody (Cat#AGI2369, 1:5,000) and HRP-conjugated goat anti rabbit secondary antibody respectively.

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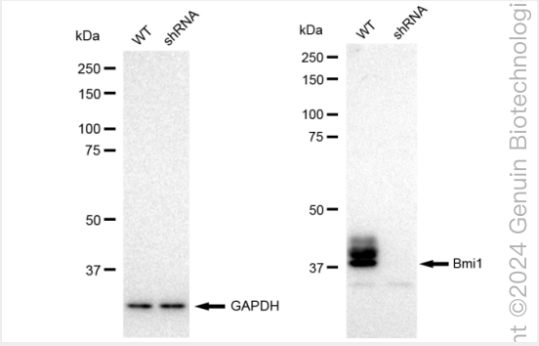
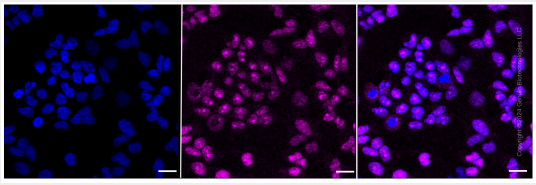


Western blotting analysis using anti-Bmi1 antibody (Cat#AGI2369). Bmi1 expression in wild type (WT) and Bmi1 shRNA knockdown (KD) 293T cells with 30 µg of total cell lysates. GAPDH serves as a loading control. The blot was incubated with anti-Bmi1 antibody (Cat#AGI2369,1:5,000) and HRP-conjugated goat anti rabbit secondary antibody respectively.



Immunocytochemical staining of HeLa cells with Bmi1 antibody (Cat#AGI2369, 1:1,000). Nuclei were stained blue with DAPI; Bmi1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.