

Rabbit BMI1 Polyclonal Antibody | anti-BMI1 antibody

BMI1 Antibody

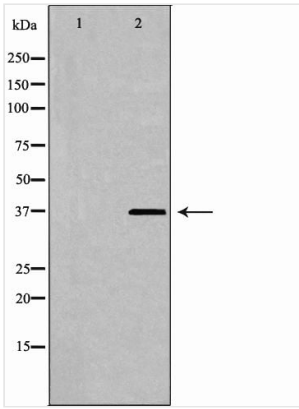
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325828	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

BMI1; Polyclonal Antibody; BMI1 Antibody; B lymphoma Mo MLV insertion region (mouse); B lymphoma Mo MLV insertion region 1 homolog; Bmi 1; BMI1 polycomb ring finger oncogene; BMI1_HUMAN; Flvi 2/bmi 1; FLVI2/BMI1; MGC12685; Murine leukemia viral (bmi 1) oncogene homolog; Oncogene BMI 1; PCGF 4; PCGF4; Polycomb complex protein BMI 1; Polycomb complex protein BMI-1; Polycomb group protein Bmi1; Polycomb group ring finger 4; Polycomb group RING finger protein 4; RING finger protein 51; RNF 51; RNF51; anti-BMI1 antibody

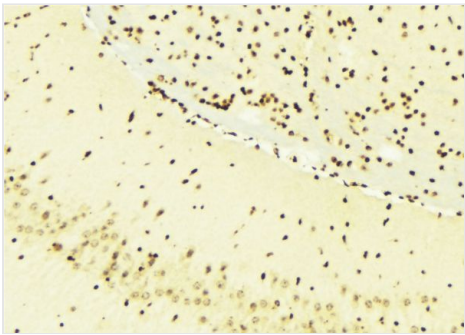
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	BMI1 antibody detects endogenous levels of total BMI1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	469
Applicable Applications for anti-BMI1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human BMI1
Subcellular Location	Nucleus. Cytoplasm.
Predicted Cross Reactivity	Pig, Bovine, Sheep, Rabbit, Chicken
Similarity	Pig (100%), Bovine (100%), Sheep (100%), Rabbit (100%), Chicken (90%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



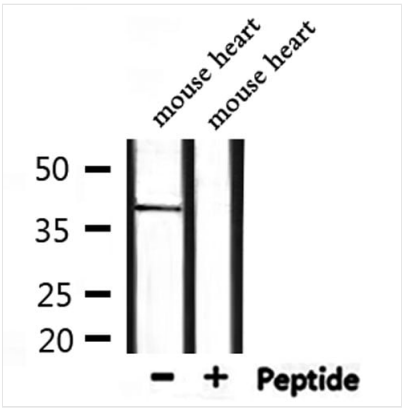
WB (Western Blot)

Western blot analysis of extracts of K562 using BMI1 antibody. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA325828 at 1/100 staining Mouse brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of extracts from mouse heart, using BMI1 Antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-BMI1 antibody	Description: The polycomb group (PcG) of proteins contributes to the maintenance of cell identity, stem cell self-renewal, cell cycle regulation, and oncogenesis by maintaining the silenced state of genes that promote cell lineage specification, cell death, and cell-cycle arrest (1-4). PcG proteins exist in two complexes that cooperate to maintain long-term gene silencing through epigenetic chromatin modifications. The first complex, EED-EZH2, is recruited to genes by DNA-binding transcription factors and methylates histone H3 on Lys27. This histone methyl-transferase activity requires the Ezh2, Eed, and Suz12 subunits of the complex (5). Histone H3 methylation at Lys27 facilitates the recruitment of the second complex, PRC1, which ubiquitinylates histone H2A on Lys119 (6). Bmi1 is a component of the PRC1 complex, which together with Ring1 strongly enhances the E3 ubiquitin ligase activity of the Ring2 catalytic subunit (7). Bmi1 plays an important role in the regulation of cell proliferation and senescence through repression of the p16 INK4A and p19 ARF genes and is required for maintenance of adult hematopoietic and neural stem cells (3, 4, 8-10). 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:26151332, PubMed:16714294, PubMed:21772249, PubMed:25355358, 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:26151332, PubMed:21772249). Subunit Structure: Component of a PRC1-like complex (PubMed:12167701, PubMed:15386022, PubMed:19636380, PubMed:21282530, PubMed:26151332, PubMed:21772249, PubMed:25355358). Identified in a PRC1-like HPRC-H complex with CBX2, CBX4, CBX8, PHC1, PHC2, PHC3 RING1 and RNF2 (PubMed:12167701). Interacts with RNF2/RING2 (PubMed:16714294, PubMed:21772249, PubMed:25355358). Interacts with RING1 (By similarity). Part of a complex that contains RNF2, UB2D3 and BMI1, where RNF2 and BMI1 form a tight heterodimer, and UB2D3 interacts only with RNF2 (PubMed:21772249, PubMed:25355358). The complex composed of RNF2, UB2D3 and BMI1 binds nucleosomes, and has activity only with nucleosomal histone H2A (PubMed:21772249, PubMed:25355358). Interacts with CBX7 and CBX8 (PubMed:19636380). Interacts with SPOP (PubMed:15897469). Part of a complex consisting of BMI1, CUL3 and SPOP (PubMed:15897469). Interacts with E4F1 (PubMed:16882984). Interacts with PHC2 (PubMed:9121482, PubMed:9199346, PubMed:27827373). Post-translational Modifications: Monoubiquitinated (By similarity). May be polyubiquitinated; which does not lead to proteasomal degradation.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	323276616
NCBI GeneID	100532731
NCBI Accession #	NP_001190991.1
NCBI GenBank Nucleotide #	NM_001204062.1
UniProt Accession #	P35226; Q16030; Q5T8Z3; Q96F37
Molecular Weight	Observed: 37 kDa Predicted: 37 kDa
NCBI Official Full Name	COMMD3-BMI1 read-through protein
NCBI Official Synonym Full Names	COMMD3-BMI1 readthrough
NCBI Official Symbol	COMMD3-BMI1
NCBI Official Synonym Symbols	BMI1; PCGF4; RNF51
NCBI Protein Information	COMMD3-BMI1 read-through protein
UniProt Protein Name	Polycomb complex protein BMI-1
UniProt Gene Name	BMI1
UniProt Synonym Gene Names	PCGF4; RNF51

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/bmi1-antibody-immunohistochemistry-western-blot-elisa/325828>