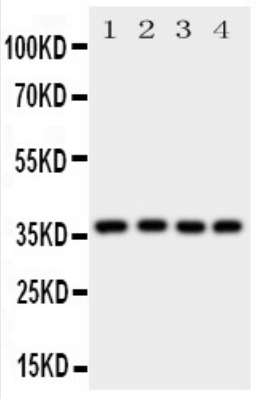
BMI1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Bmi1, Polyclonal Antibody
Full Product Name	Anti-Bmi1 antibody
Product Gene Name	anti-BMI1 antibody
Product Synonym Names	Polycomb complex protein BMI-1; BMI1 polycomb ring finger oncogene; B lymphoma Mo MLV insertion region(mouse) antibody; B lymphoma Mo MLV insertion region 1 homolog antibody; Bmi 1 antibody; BMI1 antibody; BMI1 polycomb ring finger oncogene antibody; BMI1_HUMAN antibody; Flvi 2/bmi 1 antibody; FLVI2/BMI1 antibody; MGC12685 antibody; Murine leukemia viral(bmi 1) oncogene homolog antibody; Oncogene BMI 1 antibody; PCGF 4 antibody; PCGF4 antibody; Polycomb complex protein BMI 1 antibody; Polycomb complex protein BMI-1 antibody; Polycomb group protein Bmi1 antibody; Polycomb group ring finger 4 antibody; Polycomb group RING finger protein 4 antibody; RING finger protein 51 antibody; RNF 51 antibody; RNF51 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Lyophilized
Purity/Purification	Immunogen affinity purified.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.
Molecular Weight	36,949 Da
OMIM	164831
3D Structure	ModBase 3D Structure for P35226
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human Bmi1 (136-152aa EFFDQNRLDRKVNKDKE), different from the related mouse sequence by three amino acids.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-BMI1 antibody	Western Blot (WB)
Related Product Information for anti-BMI1 antibody	**Description:** Rabbit IgG polyclonal antibody for Polycomb complex protein BMI-1(BMI1) detection. Tested with WB in Human. **Background:** BMI1(BMI1 polycomb ring finger oncogene),also known as RNF51, is a protein which in humans is encoded by the BMI1 gene. The Bmi1 gene is highly conserved in evolution as indicated by zoo blot hybridization with Bmi1 probes corresponding to the protein-encoding domain. By fluorescence in situ hybridization, the human BMI1 gene is assigned to chromosome 10p13. BMI1 has a key role in regulating the proliferative activity of normal stem and progenitor cells. Most importantly, they provided evidence that the proliferative potential of leukemic stem and progenitor cells lacking BMI1 is compromised because they eventually undergo proliferation arrest and show signs of differentiation and apoptosis, leading to transplant failure of the leukemia. Complementation studies showed that BMI1 completely rescues these proliferative defects. Deletion analysis showed that the RING finger and helix-turn-helix domains of BMI1 were required for life span extension and repression of the tumor suppressor p16(INK4). BMI1 selectively extended the life span of these cultures. Confocal microscopy showed that BMI1 transiently colocalized with centromeres during interphase in HeLa cells.

Other Notes	Small volumes of anti-BMI1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for BMI1 purchase	MBS176086 is an antibody targeting BMI1. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-BMI1 antibody
Anti-Bmi1 antibody, MBS176086, Western blottingAll lanes: Anti Bmi1 (MBS176086) at 0.5ug/mlLane 1: HELA Whole Cell Lysate at 40ugLane 2: HT1080 Whole Cell Lysate at 40ugLane 3: COLO320 Whole Cell Lysate at 40ugLane 4: MCF-7 Whole Cell Lysate at 40ugPredicted bind size: 37KDObserved bind size: 37KD

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BMI1. It may not necessarily be applicable to this product.

NCBI GI #	22258801
NCBI GeneID	100532731
NCBI Accession #	P35226.2
UniProt Primary Accession #	P35226
UniProt Secondary Accession #	Q16030; Q5T8Z3; Q96F37
NCBI Official Full Name	Polycomb complex protein BMI-1
NCBI Official Synonym Full Names	COMMD3-BMI1 readthrough
NCBI Official Symbol	COMMD3-BMI1
UniProt Protein Name	Polycomb complex protein BMI-1
UniProt Synonym Protein Names	Polycomb group RING finger protein 4; RING finger protein 51
Protein Family	Polycomb complex protein
UniProt Gene Name	BMI1
UniProt Synonym Gene Names	PCGF4; RNF51
UniProt Entry Name	BMI1_HUMAN
NCBI Protein Information	COMMD3-BMI1 read-through protein
NCBI Summary for BMI1	This locus represents naturally occurring read-through transcription between the neighboring COMM domain-containing protein 3 and polycomb complex protein BMI-1 genes on chromosome 10. The read-through transcript produces a fusion protein that shares sequence identity with each individual gene product. [provided by RefSeq, Feb 2011]

UniProt Comments for BMI1	BMI1: 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. In the PRC1 complex, it is required to stimulate the E3 ubiquitin-protein ligase activity of RNF2/RING2. Component of a PRC1-like complex. Interacts with RING1 and RING2. Interacts vwith CBX7 and CBX8. Interacts with SPOP. Part of a complex consisting of BMI1, CUL3 and SPOP. Interacts with E4F1. Protein type: Oncoprotein; Ligase; Motility/polarity/chemotaxis; Ubiquitin ligase; Ubiquitin conjugating system; EC 6.3.2.- Chromosomal Location of Human Ortholog: 10p11.23 Cellular Component: nucleoplasm; nuclear body; heterochromatin; cytoplasm; PcG protein complex; nucleus; ubiquitin ligase complex Molecular Function: protein binding; zinc ion binding; sequence-specific DNA binding; ubiquitin-protein ligase activity; chromatin binding Biological Process: transcription, DNA-dependent; in utero embryonic development; positive regulation of immature T cell proliferation in the thymus; negative regulation of transcription from RNA polymerase II promoter; humoral immune response; embryonic skeletal morphogenesis; segment specification; rostrocaudal neural tube patterning; positive regulation of fibroblast proliferation; regulation of gene expression; positive regulation of ubiquitin-protein ligase activity; histone ubiquitination; positive regulation of B cell proliferation; DNA methylation; somatic stem cell division; hemopoiesis; histone acetylation; brain development
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