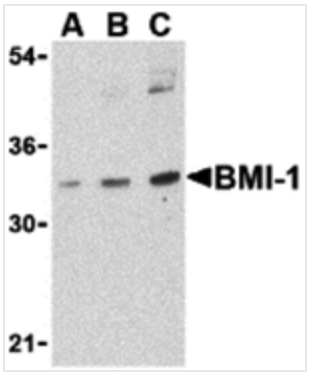
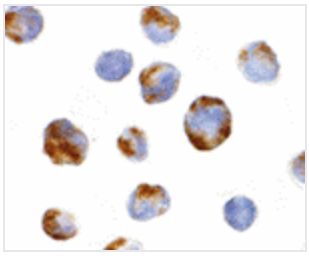
BMI-1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	BMI-1, Polyclonal Antibody
Full Product Name	BMI-1 Antibody
Product Gene Name	anti-BMI-1 antibody
Product Synonym Names	Polycomb group RING finger protein 4, RNF51
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Supplied in PBS containing 0.02% sodium azide.
Purity/Purification	Affinity chromatography purified via peptide column
Preparation and Storage	Can be stored at -20 degree C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Molecular Weight	36,949 Da
OMIM	164831
3D Structure	ModBase 3D Structure for P35226
Immunogen Type	Peptide
Immunogen Description	Raised against a peptide corresponding to 15 amino acids near the center of human BMI-1.
Target Name	BMI-1
Product Categories/Family for anti-BMI-1 antibody	Total protein Ab
Applications Tested/Suitable for anti-BMI-1 antibody	ELISA (EIA), Western Blot (WB), Immunocytochemistry (ICC)
Related Product Information for anti-BMI-1 antibody	The transcriptional repressor BMI-1 was first identified as a proto-oncogene frequently activated by Moloney murine leukemia proviral insertions in mice and cooperating with c-myc in the generation of mouse lymphomas. BMI-1 is involved in segment specification, cell growth and maintenance, transcriptional regulation, and chromatin modification. A major target of BMI-1 is the ink4a locus which encodes tumor suppressor proteins p16 and p19Arf, which are important in tumor progression and thought to be critical in cell proliferation and senescence. Recent studies have also shown that BMI-1 is required for the maintenance of adult normal and leukemic stem cells, suggesting that BMI-1 could an attractive therapeutic target for stem cell proliferation and renewal as well as for anti-cancer strategies.
Other Notes	Small volumes of anti-BMI-1 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 BMI-1 purchase	MBS9400731 is an antibody targeting BMI-1. Also known as BMI-1 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-BMI-1 antibody
Western blot analysis of BMI-1 in K562 cell lysate with BMI-1 antibody at (A) 0.5, (B) 1 and (C) 2 ug/mL.



Immunocytochemistry (ICC) of anti-BMI-1 antibody
Immunocytochemistry of BMI-1 in K562 cells with BMI-1 antibody at 10 ug/mL.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BMI-1. It may not necessarily be applicable to this product.

NCBI GI #	323276616
NCBI GeneID	100532731
NCBI Accession #	NP_001190991.1
UniProt Primary Accession #	P35226
UniProt Secondary Accession #	Q16030; Q5T8Z3; Q96F37
GenBank Nucleotide #	NM_001204062.1
NCBI Official Full Name	COMMD3-BMI1 read-through protein
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 BMI-1	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 BMI-1	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: Motility/polarity/chemotaxis; Oncoprotein; Ubiquitin conjugating system; Ligase; Ubiquitin ligase; EC 6.3.2.- Chromosomal Location of Human Ortholog: 10p11.23 Cellular Component: nucleoplasm; heterochromatin; nuclear body; 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; brain development; histone acetylation
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