



## Anti-BMI1 polyclonal antibody (CPBT-66519RB)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

#### Product Overview

Rabbit anti BMI-1 antibody recognizes 37kDa polycomb complex protein BMI-1, involved in segment specification, cell growth and maintenance, transcriptional regulation and chromatin modification. BMI-1 is a proto-oncogene which cooperates with the myc oncogene to produce B-lymphomas. It is required in the regulation of normal adult and leukaemic stem cells, making BMI-1 a potential target for stem cell proliferation and anti-cancer therapies. BMI-1 represses transcription at the ink4 locus which contains tumour suppressors p16 and p19Arf. BMI-1 is a component of the Polycomb group (PcG) multiprotein PRC1 complex which ubiquitinates histone-2A at lys119, resulting in a heritable change in the ability of chromatin to express genes. BMI-1 is also required to stimulate the E3 ubiquitin ligase activity of RNF2/RING2 within the PRC1 complex. The Notch ligand DLL4 (delta-like protein 4) enhances T cell proliferation, by directly influencing BMI-1 transcription.

<b>Specificity</b>	BMI1
<b>Immunogen</b>	15 amino acid peptide sequence near the centre of human BMI-1.
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	IHC-Fr; WB
<b>Format</b>	Purified IgG - liquid
<b>Size</b>	100 µg
<b>Preservative</b>	See individual product datasheet
<b>Storage</b>	in frost-free freezers is not recommended. This product should be stored undiluted. Avoid

repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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## GENE INFORMATION

<b>Gene Name</b>	<a href="#">BMI1 BMI1 proto-oncogene, polycomb ring finger [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	BMI1
<b>Synonyms</b>	BMI1; BMI1 proto-oncogene, polycomb ring finger; PCGF4; RNF51; FLVI2/BMI1; polycomb complex protein BMI-1; flvi-2/bmi-1; ring finger protein 51; polycomb group protein Bmi1; BMI1 polycomb ring finger oncogene; polycomb group RING finger protein 4; BMI1 po
<b>Entrez Gene ID</b>	<a href="#">648</a>
<b>Protein Refseq</b>	<a href="#">NP_005171</a>
<b>UniProt ID</b>	P35226
<b>Chromosome Location</b>	10p11.23
<b>Pathway</b>	Cellular Senescence; Cellular responses to stress; MicroRNAs in cancer; Oxidative Stress Induced Senescence; Senescence and Autophagy; Signaling pathways regulating pluripotency of stem cells; Transcriptional misregulation in cancer; Validated targets of C-MYC transcriptional activation;
<b>Function</b>	RING-like zinc finger domain binding; chromatin binding; protein binding; sequence-specific DNA binding; ubiquitin-protein transferase activity; zinc ion binding;