

Datasheet: AHP1189

BATCH NUMBER 160802

Description:	RABBIT ANTI BMI-1
Specificity:	BMI-1
Other names:	POLYCOMB GROUP RING FINGER PROTEIN 4
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			0.5 - 1.0ug/ml

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species

Human

Species Cross Reactivity

Reacts with: Rat, Mouse

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Antiserum Preparation

Antisera to human BMI-1 were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.02% Sodium Azide
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	15 amino acid peptide sequence near the centre of human BMI-1.
External Database Links	<p>UniProt: P35226 Related reagents</p> <p>Entrez Gene: 648 BMI1 Related reagents</p>
Synonyms	PCGF4, RNF51
RRID	AB_2065518
Specificity	<p>Rabbit anti BMI-1 antibody recognizes 37 kDa 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.</p> <p>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.</p> <p>The Notch ligand DLL4 (delta-like protein 4) enhances T cell proliferation, by directly influencing BMI-1 transcription.</p>
Further Reading	<ol style="list-style-type: none"> 1. Raaphorst, F. <i>et al.</i> (2003) Self-renewal of hematopoietic and leukemic stem cells: a central role for the Polycomb-group gene Bmi-1. Trends Immunol. 10:522-4. 2. Alkema, M.J. <i>et al.</i> (1993) Characterization and chromosomal localization of the human proto-oncogene BMI-1. Hum Mol Genet. 2 (10): 1597-603. 3. Lessard, J. & Sauvageau, G. (2003) Bmi-1 determines the proliferative capacity of normal and leukaemic stem cells. Nature. 423 (6937): 255-60.
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>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.</p>

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/AHP1189 10040
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Recommended Useful Reagents

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)
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