

Datasheet: AHP1189

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.
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**

UniProt:

[P35226](#) [Related reagents](#)

Entrez Gene:

[648](#) BMI1 [Related reagents](#)

Synonyms

PCGF4, RNF51

Specificity

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.

Further Reading

1. Raaphorst, F. *et al.* (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. *et al.* (1993) Characterization and chromosomal localization of the human proto-oncogene BMI-1. [Hum. Mol. Genet. 2:1597-1603.](#)
3. Lessard, J. *et al.* (2003) BMI-1 determines the proliferative capacity of normal and leukaemic stem cells. [Nature 423:255-260.](#)

Storage

Store at +4°C or at -20°C if preferred.

Storage 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.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (2AB02...)

[Biotin](#)

Sheep Anti Rabbit IgG (STAR36...)

[DyLight®488](#), [DyLight®549](#), [DyLight®649](#),
[DyLight®680](#), [DyLight®800](#)

Recommended Useful Reagents

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

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