

Datasheet for 600-401-G85**BMI1 Antibody****Overview**

Description:	Anti-BMI1 (RABBIT) Antibody - 600-401-G85
Item No.:	600-401-G85
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	BMI-1 antibody detects human BMI-1. 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 be an attractive therapeutic target for stem cell proliferation and renewal as well as for anti-cancer strategies. Anti-BMI-1 is ideal for investigators involved in chromatin, DNA damage and repair, stem cell, cell cycle protein and cancer research.
Synonyms:	PCGF4, RNF51, BMI-1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	BMI1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	BMI-1 Antibody was produced from whole rabbit serum prepared by repeated immunizations with a peptide corresponding to an internal region of human BMI-1.
Purity/Specificity:	Anti-BMI-1 Antibody was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest cross-reactivity with BMI-1 with Human, Mouse and Rat based on 100% homology with the immunizing sequence. Cross-reactivity with BMI-1 from other sources has not been determined.
Relevant Links:	<ul style="list-style-type: none">• NCBI - AAH10276• UniProtKB - Q14457• GeneID - 8678

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-BMI-1 Antibody is tested for use in E, WB, IF, and ICC. Expect a band approximately ~44.0 kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IF:	20µg/mL
WB:	0.5-2µg/mL

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

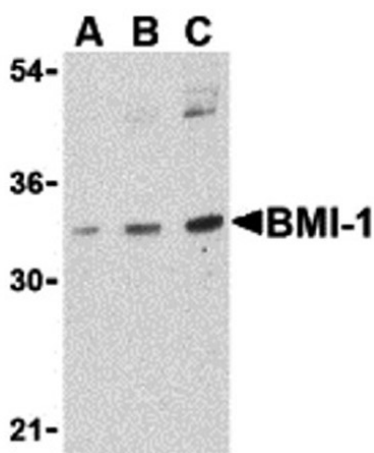
Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration:

Expiration date is one (1) year from date of receipt.

Images

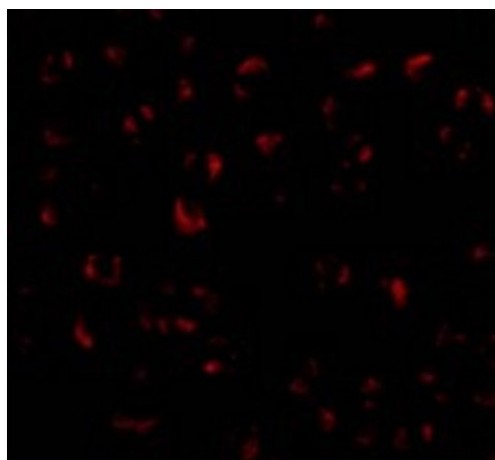


Western Blot

Western blot analysis of BMI-1.

Load: K562 cell lysate.

Primary Antibody: Anti-BMI-1 antibody at (A) 0.5 µg/mL, (B) 1 µg/mL and (C) 2 µg/mL.

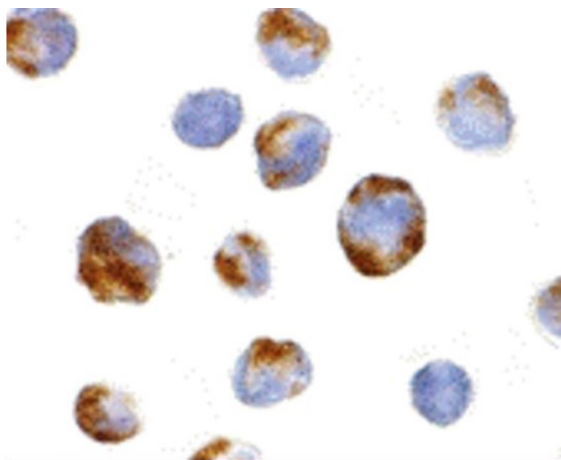


Immunofluorescence Microscopy

Immunofluorescence of BMI-1.

Cell: K562 cells.

Primary Antibody: Anti-BMI-1 antibody at 20 µg/mL.

**Immunocytochemistry**

Immunocytochemistry of BMI-1.

Cell: K562 cells.

Primary Antibody: Anti-BMI-1 antibody at 10 µg/mL.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.