

Product datasheet

Anti-Bmi1 antibody [BMI1/2823] ab269678

KO VALIDATED

[3 References](#) [7 Images](#)

Overview

Product name	Anti-Bmi1 antibody [BMI1/2823]
Description	Mouse monoclonal [BMI1/2823] to Bmi1
Host species	Mouse
Tested applications	Suitable for: IHC-P, WB, ICC/IF, Protein Array
Species reactivity	Reacts with: Mouse, Human
Immunogen	Recombinant fragment within Human Bmi1 aa 142-326. The exact sequence is proprietary. Database link: P35226
Positive control	WB: MCF7, A431, HEK-293T and NIH/3T3 cell lysate. IHC-P: Human breast carcinoma, colon carcinoma and prostate carcinoma tissue. ICC/IF: HeLa cells.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.05% Sodium azide Constituents: PBS, 0.05% BSA
Purity	Protein A/G purified
Purification notes	Purified from bioreactor concentrate.
Clonality	Monoclonal
Clone number	BMI1/2823

Isotype	IgG1
Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab269678 in the following tested applications.

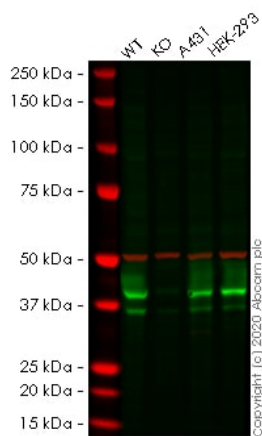
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 1 - 2 µg/ml. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		Use a concentration of 1 - 2 µg/ml. Predicted molecular weight: 36 kDa.
ICC/IF		Use a concentration of 1 - 2 µg/ml.
Protein Array		Use at an assay dependent concentration.

Target

Function	Component of the Polycomb group (PcG) multiprotein PRC1 complex, a complex 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.
Sequence similarities	Contains 1 RING-type zinc finger.
Post-translational modifications	Monoubiquitinated (By similarity). May be polyubiquitinated; which does not lead to proteasomal degradation.
Cellular localization	Nucleus. Cytoplasm.

Images



Western blot - Anti-Bmi1 antibody [BMI1/2823] (ab269678)

All lanes : Anti-Bmi1 antibody [BMI1/2823] (ab269678)

Lane 1 : Wild-type MCF7 cell lysate

Lane 2 : BMI1 knockout MCF7 cell lysate

Lane 3 : A431 cell lysate

Lane 4 : HEK-293 cell lysate

Lysates/proteins at 20 µg per lane.

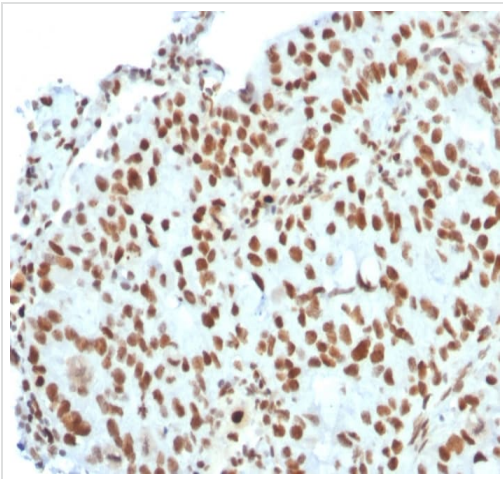
Performed under reducing conditions.

Predicted band size: 36 kDa

Observed band size: 36 kDa

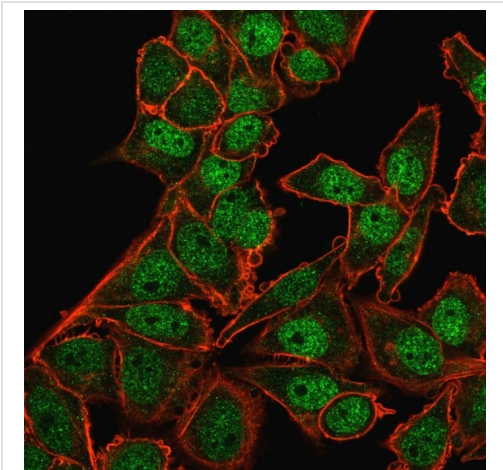
Lanes 1- 4: Merged signal (red and green). Green - ab269678 observed at 36 kDa. Red - Anti-alpha Tubulin antibody [EP1332Y] - Microtubule Marker ([ab52866](#)) observed at 50 kDa.

ab269678 was shown to react with Bmi1 in wild-type MCF7 cells in western blot. Loss of signal was observed when knockout cell line [ab262319](#) (knockout cell lysate [ab256851](#)) was used. Wild-type MCF7 and BMI1 knockout MCF7 cell lysates were subjected to SDS-PAGE. Membrane was blocked for 1 hour at room temperature in 0.1% TBST with 3% non-fat dried milk. ab269678 and Anti-alpha Tubulin antibody [EP1332Y] - Microtubule Marker ([ab52866](#)) overnight at 4°C at a 2 µg/ml and a 1 in 20000 dilution respectively. Blots were developed with Goat anti-Mouse IgG H&L (IRDye®800CW) preadsorbed ([ab216772](#)) and Goat Anti-Rabbit IgG H&L (IRDye®680RD) preadsorbed ([ab216777](#)) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



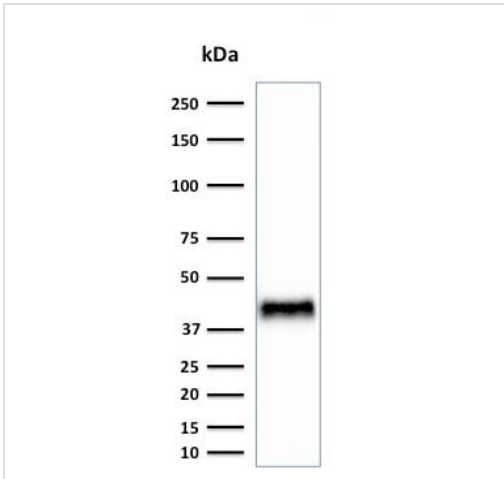
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Bmi1 antibody [BMI1/2823] (ab269678)

Formalin-fixed, paraffin-embedded human breast carcinoma tissue stained for Bmi1 using ab269678 at 2 $\mu\text{g/ml}$ in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence - Anti-Bmi1 antibody [BMI1/2823] (ab269678)

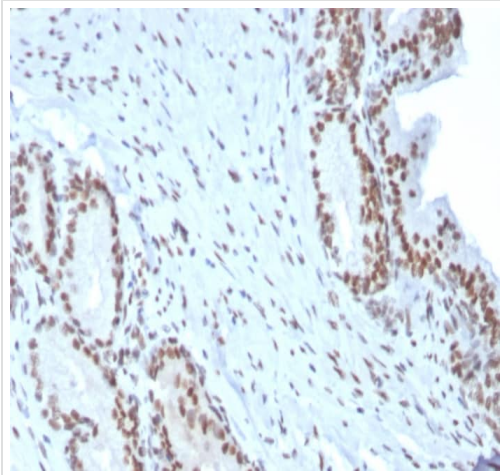
PFA-fixed HeLa (human epithelial cell line from cervix adenocarcinoma) cells labeling Bmi1 using ab269678 at 2 $\mu\text{g/ml}$ in ICC/IF. The secondary antibody is a Goat anti-mouse IgG-CF488 conjugate (Green). The membrane is stained with Phalloidin (Red).



Western blot - Anti-Bmi1 antibody [BMI1/2823]
(ab269678)

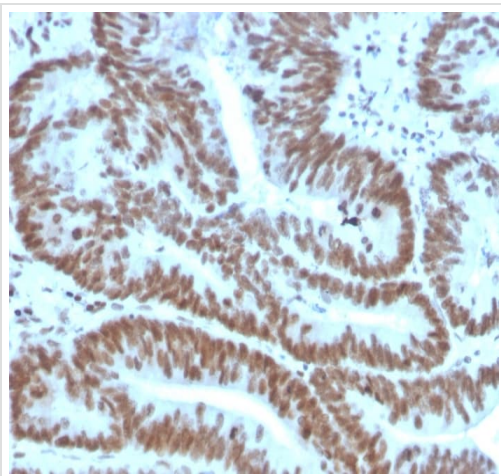
Anti-Bmi1 antibody [BMI1/2823] (ab269678) at 2 $\mu\text{g/ml}$ + NIH/3T3
(mouse embryo fibroblast cell line) cell lysate

Predicted band size: 36 kDa



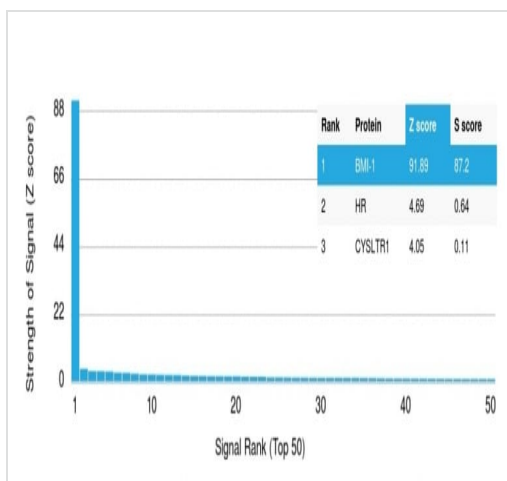
Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-Bmi1 antibody
[BMI1/2823] (ab269678)

Formalin-fixed, paraffin-embedded human prostate carcinoma
tissue stained for Bmi1 using ab269678 at 2 $\mu\text{g/ml}$ in
immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Bmi1 antibody [BMI1/2823] (ab269678)

Formalin-fixed, paraffin-embedded human colon carcinoma tissue stained for Bmi1 using ab269678 at 2 µg/ml in immunohistochemical analysis.



Protein Array - Anti-Bmi1 antibody [BMI1/2823] (ab269678)

Analysis of Protein Array containing more than 19,000 full-length human proteins using ab269678.

Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.

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