

## Mouse BMI1 Monoclonal Antibody | anti-BMI1 antibody

BMI1 (Oncogene and Stem Cell Marker)

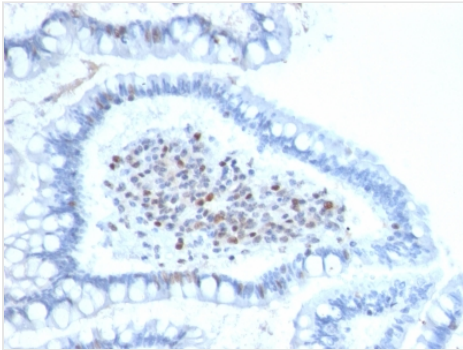
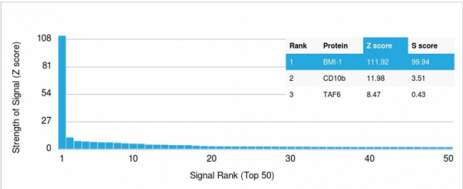
|                               |                      |                                               |                                             |
|-------------------------------|----------------------|-----------------------------------------------|---------------------------------------------|
| CATALOG #<br><b>AAA214815</b> | HOST<br><b>Mouse</b> | REACTIVITY<br><b>Human. Others not known.</b> | APPLICATIONS<br><b>Immunohistochemistry</b> |
|-------------------------------|----------------------|-----------------------------------------------|---------------------------------------------|

### PRODUCT SYNONYMS

BMI1; Monoclonal Antibody; BMI1 (Oncogene and Stem Cell Marker); B lymphoma Mo MLV insertion region 1 homolog; BMI1 polycomb ring finger oncogene; FLVI2/BMI1; Oncogene BMI1; PCGF4; Polycomb complex protein BMI-1; Polycomb group ring finger 4; RING finger protein 51; RNF51; anti-BMI1 antibody

### PRODUCT SPECIFICATIONS

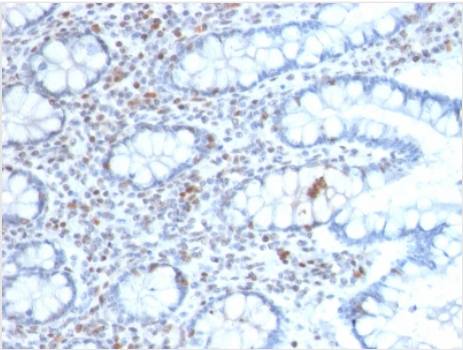
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|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Reactivity                                     | Human. Others not known.                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Clonality                                      | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Isotype                                        | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Clone Number                                   | BMI1/2689                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Specificity                                    | The B cell-specific moloney murine leukemia virus integration site 1 (Bmi-1) is a transcriptional receptor of the polycomb gene family involved in several cellular processes including cell-cycle regulation, apoptosis, and maintenance of adult and neoplastic stem cells by providing self-renewal capacity. Further, Bmi-1 expression has been associated with malignant transformation, tumor progression, metastatic disease, and poor prognosis in human malignancies. |
| Purity/Purification                            | Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml                                                                                                                                                                                                                                                                                                                                                                                    |
| Form/Format                                    | 200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.                                                                                                                                                                                                                                                                                                         |
| Sequence Length                                | 326                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Applicable Applications for anti-BMI1 antibody | IHC (Immunohistochemistry)                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Immunogen                                      | Recombinant fragment of human BMI1 protein (around aa 142-326) (exact sequence is proprietary)                                                                                                                                                                                                                                                                                                                                                                                 |
| Positive Control                               | HeLa or Jurkat Cells. Colon Carcinoma                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Cellular Localization                          | Nuclear                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Chromosome Location                            | 10p12.2.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Preparation and Storage                        | Antibody with azide - store at 2 to 8 degree C.<br>Antibody without azide - store at -20 to -80 degree C.<br>Antibody is stable for 24 months. Non-hazardous. No MSDS required.                                                                                                                                                                                                                                                                                                |



**IHC (Immunohistochemistry)**  
Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with BMI1 Mouse Monoclonal Antibody (BMI1/2689).

**Application Data**

Analysis of Protein Array containing more than 19,000 full-length human proteins using BMI1 Mouse Monoclonal Antibody (BMI1/2689). 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 be 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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**ADDITIONAL INFORMATION**

|            |                                                                                                                |
|------------|----------------------------------------------------------------------------------------------------------------|
| References | Park IK, Morrison SJ, Clarke MF. Bmi1, stem cells, and senescence regulation. J Clin Invest 2004; 113:175-179. |
|------------|----------------------------------------------------------------------------------------------------------------|

**NCBI AND UNIPROT INFORMATION**

|                                  |                                  |
|----------------------------------|----------------------------------|
| NCBI GI #                        | 323276616                        |
| NCBI GeneID                      | 100532731                        |
| NCBI Accession #                 | NP_001190991.1                   |
| NCBI GenBank Nucleotide #        | NM_001204062.1                   |
| UniProt Accession #              | P35226; Q16030; Q5T8Z3; Q96F37   |
| Molecular Weight                 | 41kDa                            |
| NCBI Official Full Name          | COMMD3-BMI1 read-through protein |
| NCBI Official Synonym Full Names | COMMD3-BMI1 readthrough          |
| NCBI Official Symbol             | COMMD3-BMI1                      |
| NCBI Official Synonym Symbols    | BMI1; PCGF4; RNF51               |
| NCBI Protein Information         | COMMD3-BMI1 read-through protein |

|                            |                                |
|----------------------------|--------------------------------|
| UniProt Protein Name       | Polycomb complex protein BMI-1 |
| UniProt Gene Name          | <b>BMI1</b>                    |
| UniProt Synonym Gene Names | PCGF4; RNF51                   |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://www.aaabiotech.com/monoclonal/bmi1-antibody-clone-bmi1-2689-immunohistochemistry-elisa/214815>