

BMI1 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1635a**Specification****BMI1 Antibody - Product Information**

Application	WB, IHC, FC, ICC, E
Primary Accession	P35226
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	37kDa KDa

Description

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.

Immunogen

Purified recombinant fragment of human BMI1 expressed in E. Coli.

Formulation

Ascitic fluid containing 0.03% sodium azide.

BMI1 Antibody - Additional Information

Gene ID 100532731;648

Dilution

WB~~1/500 - 1/2000
IHC~~1/200 - 1/1000
FC~~1/200 - 1/400
ICC~~N/A
E~~1/10000

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

BMI1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

BMI1 Antibody - Protein Information

Name BMI1**Synonyms** PCGF4, RNF51**Function**

Component of a Polycomb group (PcG) multiprotein PRC1-like complex, a complex class 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 (PubMed:15386022, PubMed:16359901, PubMed:16714294, PubMed:21772249, PubMed:25355358, PubMed:26151332, PubMed:27827373). The complex composed of RNF2, UB2D3 and BMI1 binds nucleosomes, and has activity only with nucleosomal histone H2A (PubMed:21772249, PubMed:25355358). In the PRC1-like complex, regulates the E3 ubiquitin-protein ligase activity of RNF2/RING2 (PubMed:15386022, PubMed:21772249, PubMed:26151332).

Cellular Location

Nucleus. Cytoplasm

BMI1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

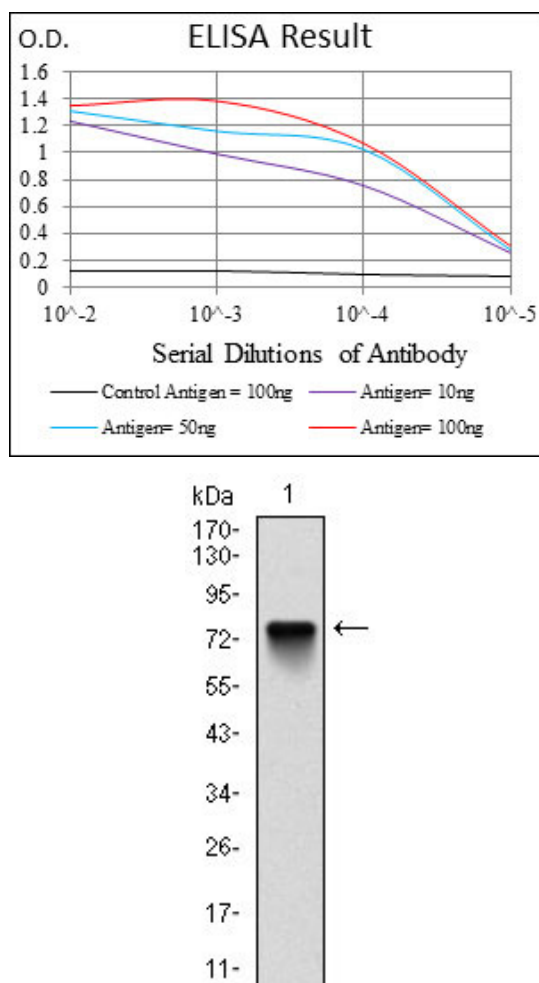


Figure 1: Western blot analysis using BMI1 mAb against human BMI1 (AA: 1-326) recombinant protein. (Expected MW is 74 kDa)

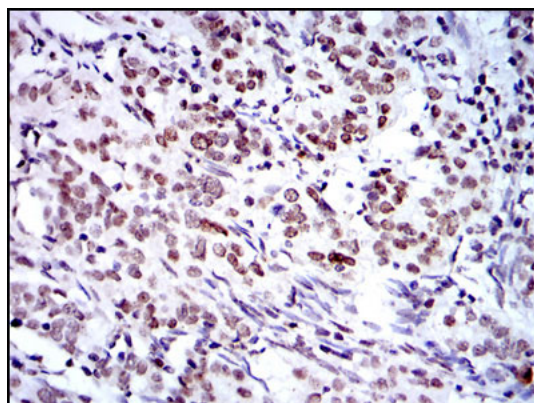


Figure 2: Immunohistochemical analysis of paraffin-embedded cervical cancer tissues using BMI1 mouse mAb with DAB staining.

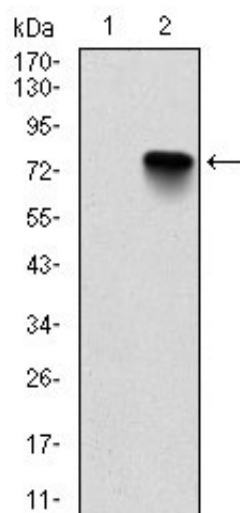


Figure 2: Western blot analysis using BMI1 mAb against HEK293 (1) and BMI1-hlgGfC transfected HEK293 (2) cell lysate.

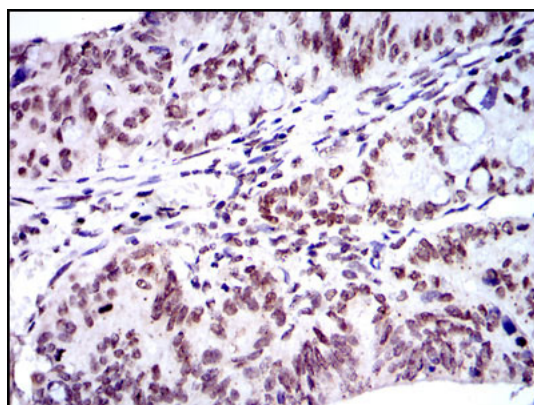


Figure 3: Immunohistochemical analysis of paraffin-embedded rectum cancer tissues using BMI1 mouse mAb with DAB staining.

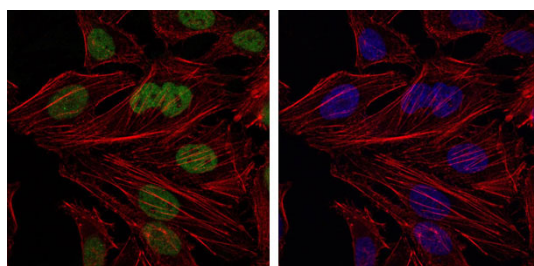


Figure 4: Immunofluorescence analysis of HeLa cells using BMI1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

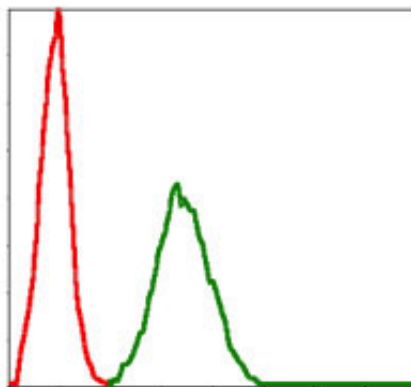


Figure 5: Flow cytometric analysis of NIH/3T3 cells using BMI1 mouse mAb (green) and negative control (red).

BMI1 Antibody - References

1. Mol Cancer. 2009 Nov 10;8:98.
2. Cancer Res. 2009 Dec 1;69(23):9090-5.