

BMI1 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1635a

Specification

BMI1 Antibody - Product Information

Application	E, WB, IHC, IF, FC
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

E~~1/10000
WB~~1/500 - 1/2000
IHC~~1/200 - 1/1000
IF~~1/200 - 1/1000
FC~~1/200 - 1/400

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](#)

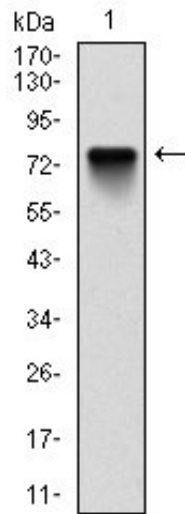
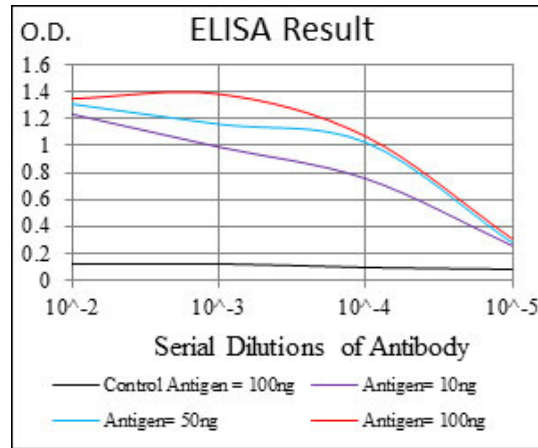


Figure 1: Western blot analysis using BMI1 mAb against human BMI1 (AA: 1-326) recombinant protein. (Expected MW is 74 kDa)

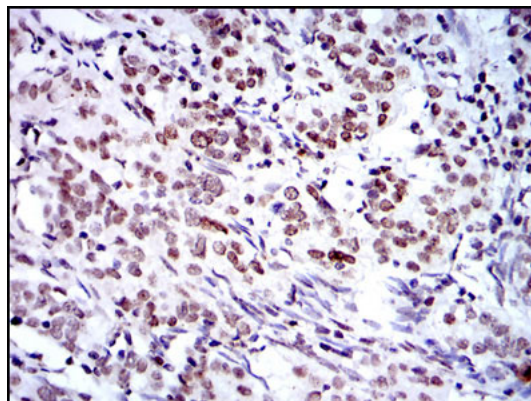


Figure 2: Immunohistochemical analysis of paraffin-embedded cervical cancer tissues using BMI1 mouse mAb with DAB staining.

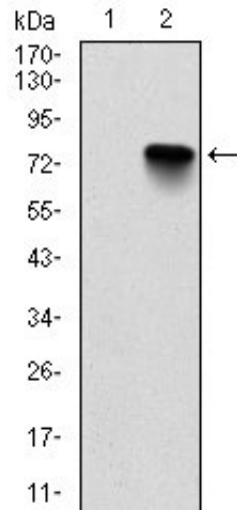


Figure 2: Western blot analysis using BMI1 mAb against HEK293 (1) and BMI1-hlgGfc transfected HEK293 (2) cell lysate.

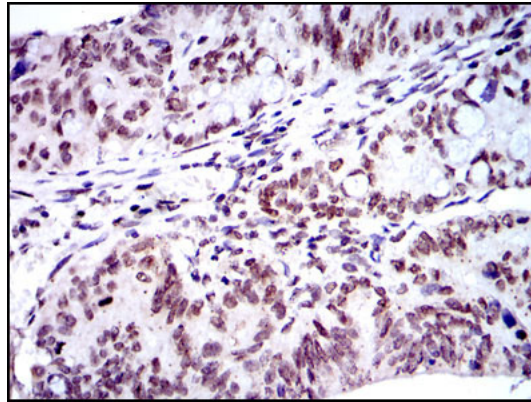


Figure 3: Immunohistochemical analysis of paraffin-embedded rectum cancer tissues using BMI1 mouse mAb with DAB staining.

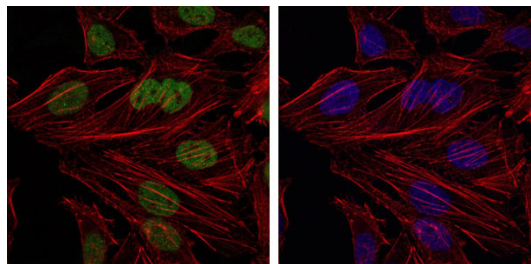


Figure 4: Immunofluorescence analysis of HeLa cells using BMI1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

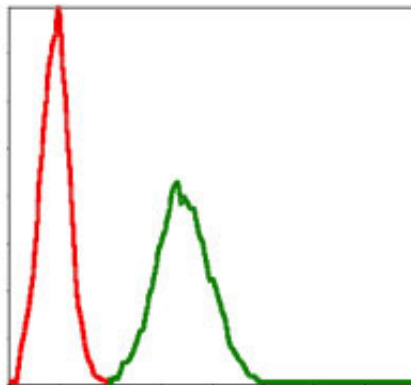


Figure 5: Flow cytometric analysis of NIH/3T3 cells using BMI1 mouse mAb (green) and negative control (red).

BMI1 Antibody - References

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