

**Polycomb complex protein BMI-1 antibody**

□ Cat # BMI11-A

Rabbit anti-Human BMI-1 antibody

SIZE: 100 µg

BMI-1 (B cell-specific Moloney-MLV Integration site 1) is a protein that in humans is encoded by the BMI1 gene. BMI-1 is a polycomb ring finger oncogene. The BMI-1 gene is 10.04 kb with 10 exon and is highly conserved sequence between species. The human BMI-1 gene localizes at chromosome 10 (10p11.23). The BMI-1 protein consists of 326 amino acids and has a molecular weight of 36949 Da. BMI-1 has a RING finger at the N-terminus and a central helix-turn-helix domain. BMI-1 is necessary for efficient self-renewing cell divisions of adult hematopoietic stem cells as well as adult peripheral and central nervous system neural stem cells.

Overexpression of BMI-1 seems to play an important role in several types of cancer, such as bladder, skin, prostate, breast, ovarian, colorectal as well as hematological malignancies. Inhibiting BMI-1 has been shown to inhibit the proliferation of glioblastoma multiforme, chemoresistant ovarian cancer, prostatic, pancreatic and skin cancers.

**Source of Antigen or Antibodies**

**Uniprot:** P35226

**Host:** Rabbit

**Clonality:** Polyclonal

**Purification:** Ammonium sulfate followed by peptide affinity purification

**Immunogen:** 25 amino acid synthetic peptide derived from within region 100-200 of Human BMI-1 conjugated KLH

**Cross reactivity:** The peptide used as an immunogen exhibits 100% homology with Pig and Horse. 96% Bovine, Cat, and Dog. 88% Chicken and Mouse. 83% with Rat. Reactivity has only been confirmed in-house with Human samples

**Subcellular Location:** Nucleus and Cytoplasm

**Alternative names:** Polycomb group RING finger protein 4

**Recommended Secondary Antibody:** Goat anti-Rabbit IgG-HRP (ADI cat#20320)

**Form & Storage of Antibodies**

□ **Affinity pure IgG Solution**

Concentration: 0.5 mg/ml Volume: 200 µl

Supplied in PBS, pH 7.4 + 0.1% BSA

The antibody can be made available carrier free or conjugated to HRP, Biotin, or FITC on request

□ **Lyophilized powder**

Reconstitute powder in 200 µl distilled water to 0.5 mg/ml

**Storage:**

**Short-term:** 4°C for 1 month

**Long-term:** at -20°C or below in suitable aliquots after reconstitution for 1 year. Do not expose to multiple freeze/thaw cycles or store working, diluted solutions. Glycerol may be added to a final concentration of 50% and antibodies can be stored un-aliquoted at -20°C.

**Recommended Usage**

**ELISA:** Assay dependent concentration. Typically, between 0.1-2.0 µg/ml for capture/detection antibodies.

**Western Blotting:** 0.5-1.0 µg/ml

Predicted band size: 37 kDa

Observed band size: ~41-43 kDa. Smear or triplet band may be observed

**Immunohistochemistry:** 1-10 µg/ml. QC tested using 10 mM sodium citrate pH 6 antigen retrieval buffer. The antibody may work better with other retrieval solutions or no antigen retrieval.

The above concentrations are a *suggestion*, user's must optimize their assay based on their own conditions. The antibody may work in other applications such as Immunocytochemistry or Immunoprecipitation. These methods have not been tested by ADI.

*\*This product is for In vitro research use only.*

**Related materials available from ADI**

Catalog#	Description
CD44UL-100	Mouse Monoclonal Anti-Human CD44 antibody
BCL11-A	Rabbit Anti-Human BCL-2 antibody
BCL21-A	Rabbit Anti-Mouse BCL-2 antibody
BCL2-C	Recombinant BCL-2 control for Western blotting
HKI67-A	Rabbit anti-Human Proliferation marker Ki-67
GFAP11-A	Rabbit anti-Mouse phospho Glial fibrillary acidic protein (S266) antibody
GFAP21-A	Rabbit anti-Mouse Glial fibrillary acidic protein (GFAP) antibody
OCT411-A	Rabbit anti-Mouse OCT4 antibody
OCT411-C	Recombinant OCT4 protein control for Western blotting

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