

## Anti-BMI-1 Antibody (9H107)

### Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	9H107
Purification:	Protein A

### Applications

Verified Activity:	Immunochemical staining of human BMI1 in human skeletal muscle with rabbit monoclonal antibody (1:200, formalin-fixed paraffin embedded sections).
Application:	IHC-P
Recommended	IHC-P: 1:100-1:500

### Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

### Antigen Details

Immunogen:	A synthetic peptide: center region of the Human BMI1
Antigen Species:	Human

### Research Background

Polycomb group member protein BMI1 is involved in maintaining cell identity, proliferation, differentiation and human oncogenesis. BMI1 mRNA expression in whole blood might represent a new biomarker for the diagnosis and prognosis of NSCLC. In human myoblasts, BMI1 overexpression increases mitochondrial activity, leading to an enhanced energetic state with increased ATP production and concomitant protection against DNA damage both in vitro and upon xenografting in a severe dystrophic mouse model. BMI1 inhibition suppressed proliferation of leukemia cells through NOTCH signaling which functions downstream of BMI1, suggesting that BMI1 inhibitors can be candidate targeted drugs against leukemia. BMI1 decreases ATR activation through a mechanism that involves binding to TOPBP1 and/or ATR. BMI1 over-expression may be useful in identifying patients who might benefit from novel therapies directed at reversing the chromatin-modifying functions of BMI1.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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