

# Bmi1 Rabbit mAb

Catalog # AP76410

## Product Information

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<b>Application</b>	WB, IHC-P, FC, IP
<b>Primary Accession</b>	<a href="#">P35226</a>
<b>Reactivity</b>	Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal Antibody
<b>Isotype</b>	IgG
<b>Conjugate</b>	Unconjugated
<b>Purification</b>	Affinity Purified
<b>Calculated MW</b>	36949

## Additional Information

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<b>Gene ID</b>	100532731;648
<b>Other Names</b>	BMI1
<b>Dilution</b>	WB~~1:1000-1:5000 IHC-P~~N/A FC~~1:50-1:100 IP~~1:20-1:50
<b>Format</b>	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

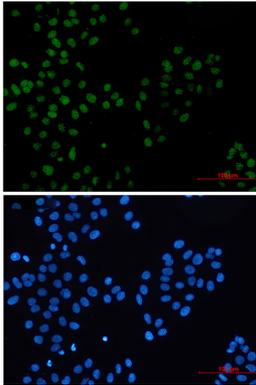
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<b>Name</b>	BMI1
<b>Synonyms</b>	PCGF4, RNF51
<b>Function</b>	Component of a Polycomb group (PcG) multiprotein PRC1-like complex, a complex class required to maintain the transcriptionally repressive state of many genes, including Hox genes, throughout 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: <a href="#">15386022</a> , PubMed: <a href="#">16359901</a> , PubMed: <a href="#">16714294</a> , PubMed: <a href="#">21772249</a> , PubMed: <a href="#">25355358</a> , PubMed: <a href="#">26151332</a> , PubMed: <a href="#">27827373</a> ). The complex composed of RNF2, UB2D3 and BMI1 binds nucleosomes, and has activity only with nucleosomal histone H2A (PubMed: <a href="#">21772249</a> , PubMed: <a href="#">25355358</a> ). In the PRC1-like complex, regulates the E3 ubiquitin-protein ligase activity of RNF2/RING2 (PubMed: <a href="#">15386022</a> , PubMed: <a href="#">21772249</a> , PubMed: <a href="#">26151332</a> ).

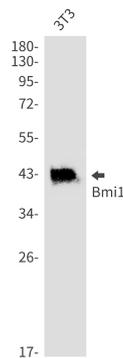
## Background

The polycomb group (PcG) of proteins contributes to the maintenance of cell identity, stem cell self-renewal, cell cycle regulation, and oncogenesis by maintaining the silenced state of genes that promote cell lineage specification, cell death, and cell-cycle arrest. PcG proteins exist in two complexes that cooperate to maintain long-term gene silencing through epigenetic chromatin modifications. The first complex, EED-EZH2, is recruited to genes by DNA-binding transcription factors and methylates histone H3 on Lys27.

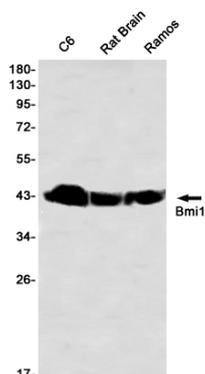
## Images



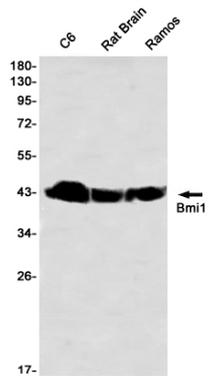
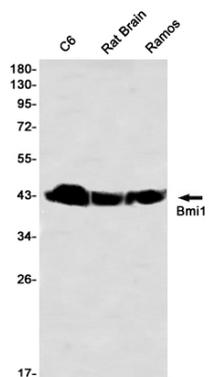
Immunocytochemistry analysis of BMI1 (green) in HeLa using BMI1 antibody, and DAPI (blue).



Western blot analysis of Bmi1 in 3T3 lysates using Bmi1 antibody.



Western blot analysis of Bmi1 in C6, rat Brain, Ramos lysates using Bmi1 antibody



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