

Product Name: Bmi1 (10S4) Rabbit Monoclonal Antibody
Catalog #: AMRe07586

Summary

Production Name	Bmi1 (10S4) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
Purification	Affinity purification

Immunogen

Gene Name	BMI1
Alternative Names	BMI1 ; Polycomb complex protein BMI 1; RING finger protein 51; RNF51; PCGF4;
Gene ID	100532731;648
SwissProt ID	P35226.

Application

Dilution Ratio	WB 1:500-1:2000
Molecular Weight	37kDa

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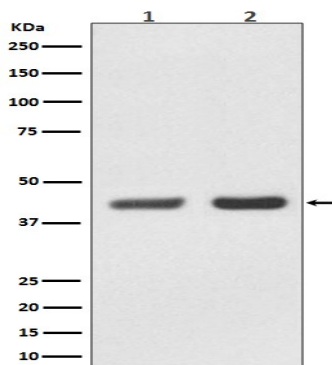
Background

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. 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](http://www.uniprot.org/citations/15386022), PubMed:[16359901](http://www.uniprot.org/citations/16359901), PubMed:[26151332](http://www.uniprot.org/citations/26151332), PubMed:[16714294](http://www.uniprot.org/citations/16714294), PubMed:[21772249](http://www.uniprot.org/citations/21772249), PubMed:[25355358](http://www.uniprot.org/citations/25355358), PubMed:[27827373](http://www.uniprot.org/citations/27827373)). The complex composed of RNF2, UB2D3 and BMI1 binds nucleosomes, and has activity only with nucleosomal histone H2A (PubMed:[21772249](http://www.uniprot.org/citations/21772249), PubMed:[25355358](http://www.uniprot.org/citations/25355358)). In the PRC1-like complex, regulates the E3 ubiquitin-protein ligase activity of RNF2/RING2 (PubMed:[15386022](http://www.uniprot.org/citations/15386022), PubMed:[26151332](http://www.uniprot.org/citations/26151332), PubMed:[21772249](http://www.uniprot.org/citations/21772249)).

Research Area

Image Data

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Western blot analysis of Bmi1 expression in (1) K562 cell lysate; (2) PC-12 cell lysate.

Note

For research use only.