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Datasheet for ABIN652702 anti-BMI1 antibody

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Overview

Quantity:	400 µL
Target:	BMI1
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BMI1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS)

Product Details

Immunogen:	This BMI1 antibody is generated from rabbits immunized with BMI1 recombinant protein.
Clone:	RB22858
lsotype:	lg Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	BMI1
Alternative Name:	BMI1 (BMI1 Products)
Background:	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,

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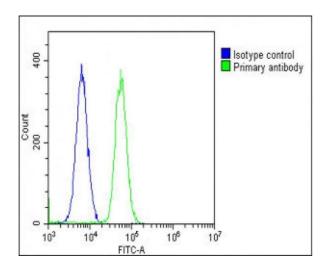
Target Details

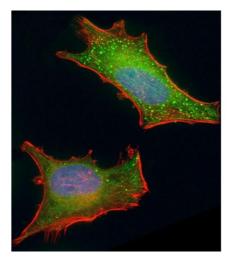
	it mediates monoubiquitination of histone H2A 'Lys-119', rendering chromatin heritably changed in its expressibility. In the PRC1 complex, it is required to stimulate the E3 ubiquitin-protein ligase activity of RNF2/RING2.
Molecular Weight:	36949
Gene ID:	648
NCBI Accession:	NP_001190991, NP_005171
UniProt:	P35226
Pathways:	Cell Division Cycle, Autophagy
Application Details	
Application Notes:	IF: 1:25. WB: 1:2000. WB: 1:8000. IHC-P: 1:10~50. FC: 1:25. FC: 1:25. FC: 1:25
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	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.
Expiry Date:	6 months
Publications	
Product cited in:	Zhou, Dai, Wu, Ji, Karaplis, Goltzman, Yang, Miao: "Overexpression of Bmi1 in Lymphocytes
	Stimulates Skeletogenesis by Improving the Osteogenic Microenvironment." in: Scientific
	reports , Vol. 6, pp. 29171, (2018) (PubMed).
	León-González, Jara-Palacios, Abbas, Heredia, Schini-Kerth: "Role of epigenetic regulation on

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Dauleh, Santeramo, Fielding, Ward, Herrmann, Murray, Wilm: "Characterisation of Cultured Mesothelial Cells Derived from the Murine Adult Omentum." in: **PLoS ONE**, Vol. 11, Issue 7, pp. e0158997, (2017) (PubMed).

Images





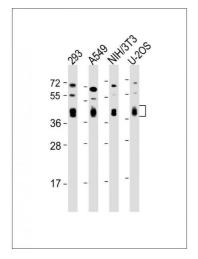
Flow Cytometry

Image 1. Overlay histogram showing U-2 OS cells stained with (ABIN652702 and ABIN2842467)(green line). The cells were fixed with 2 % paraformaldehyde (10 min) and then permeabilized with 90 % methanol for 10 min. The cells were then icubated in 2 % bovine serum albumin to block non-specific protein-protein interactions followed by the antibody ((ABIN652702 and ABIN2842467), 1:25 dilution) for 60 min at 37 °C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OH191631) at 1/200 dilution for 40 min at 37 °C. Isotype control antibody (blue line) was rabbit IgG1 (1 μ g/1x10^6 cells) used under the same conditions. Acquisition of >10,000 events was performed.

Immunofluorescence

Image 2. Immunofluorescent analysis of 4 % paraformaldehyde-fixed, 0.1 % Triton X-100 permeabilized HeLa (human cervical epithelial adenocarcinoma cell line) cells labeling BMI1 with (ABIN652702 and ABIN2842467) at 1/25 dilution, followed by Dylight® 488-conjugated goat anti-rabbit IgG (1583138) secondary antibody at 1/200 dilution (green). Immunofluorescence image showing cytoplasm and nucleus staining on HeLa cell line. Cytoplasmic actin is detected with Dylight® 554 Phalloidin

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(OI17558410) at 1/100 dilution (red). The nuclear counter stain is DI (blue).

Western Blotting

Image 3. All lanes : Anti-BMI1 Antibody at 1:2000 dilution Lane 1: 293 whole cell lysate Lane 2: A549 whole cell lysate Lane 3: NIH/3T3 whole cell lysate Lane 4: U-2OS whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 37 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.

Please check the product details page for more images. Overall 7 images are available for ABIN652702.