



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Mouse anti Human BMI1

Catalogue number: **MUB2004P**

Clone	229F6
Isotype	IgG1
Product Type	Primary Antibodies
Units	0.1 mg
Host	Mouse (Balb/c)
Species reactivity	Human Mouse Rabbit Rat
Application	Immunoblotting Immunohistochemistry (frozen) Immunoprecipitation

## Distributors

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### Background

BMI1 polycomb ring finger oncogene, also known as BMI1, is a protein which in Humans is encoded by the BMI1 gene. BMI1 (B lymphoma Mo-MLV insertion region 1 homolog) has been reported as an oncogene by regulating p16 and p19, which are cell cycle inhibitor genes. BMI1 is rapidly recruited to sites of DNA damage and it sustains for over than 8h. Loss of BMI1 leads to radiation sensitive and impaired repair of DNA double-strand breaks by homologous recombination. Bmi1 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. Bmi1 is also thought to inhibit ageing in neurons through the suppression of p53. In primary and tumor cells, nuclear BMI1 shows a fine-grain distribution over chromatin, usually dense in interphase nuclei and significantly weaker along mitotic chromosomes. In addition, BMI1 preferentially associates with several distinct heterochromatic domains in tumor cell lines. Bmi1 seems to play an important role in several types of cancer, such as bladder, skin, prostate, breast, ovarian, colorectal as well as hematological malignancies. Its amplification and overexpression is especially pronounced in mantle cell lymphomas. In both primary and tumor cell lines a marked cell cycle regulation of Pc-G-chromatin interaction is observed: nuclear BMI1-staining dissipates in late S phase and is reestablished early in G1-phase. Chromatin-association of BMI1 inversely correlates with its phosphorylation status in a cell cycle-dependent fashion: at G1/S, hypophosphorylated. BMI1 is specifically retained in the chromatin-associated nuclear protein fraction, whereas during

G2/M, phosphorylated BMI1 is not chromatin bound.

**Source**

229F6 is a Mouse monoclonal IgG1 antibody derived by fusion of SP2/0 Mouse myeloma cells with spleen cells from a BALB/c Mouse immunized with recombinant Bmi1 protein corresponding to residues 1-202 of Mouse Bmi-1 acerial fusion protein of membrane proximal non repeat domain of Human episialin.

**Product**

Each vial contains 100 ul 1 mg/ml purified monoclonal antibody in PBS containing 0.09% sodium azide.

**Applications**

229F6 is useful for immunoprecipitation, western blot and immunohistochemistry on frozen sections. Optimal antibody dilution should be determined by titration.

**Specificity**

229F6 preferentially associates with several distinct heterochromatic domains in tumor cell lines. In both primary and tumor cell lines a marked cell cycleregulation of Pc-G-chromatin interaction is observed.

**Storage**

Store at 4°C, or in small aliquots at -20°C.

**References**

1. Jan Willem Voncken, Dieter Schweizer, Louise Aagaard, Lydia Sattle, Michael F. Jantsch and Maarten van Lohuizen. Chromatin-association of the Polycomb group protein BMI1 is cell cycle regulated and correlates with its phosphorylation status. *J. of Cell Science* 112: 4627-4639, 1999.
2. Mark J. Alkema, Marieke Bronk, Els Verhoeven, Arie Otte, Laura J. van 't Veer, Anton Berns and Maarten van Lohuizen. Identification of BMI1-interacting proteins as constituents of a multimeric mammalian Polycomb complex. *Genes Dev.* 11: 226-240, 1997.

**Caution**

This product is intended FOR RESEARCH USE ONLY, and FOR TESTS IN VITRO, not for use in diagnostic or therapeutic procedures involving humans or animals. This product contains sodium azide. To prevent formation of toxic vapors, do not mix with strong acidic solutions. To prevent formation of potentially explosive metallic azides in metal plumbing, always wash into drain with copious quantities of water. This datasheet is as accurate as reasonably achievable, but Nordic-MUbio accepts no liability for any inaccuracies or omissions in this information.