

Rabbit Anti-BMI-1 [EP199]: RM0009, RM0009RTU7

Intended Use: For Research Use Only

Description: BMI-1 (B lymphoma Mo-MLV insertion region 1 homolog), a key component of the PRC1 complex, was identified initially as an oncogene that cooperates with c-myc in the generation of B-cell lymphoma. It functions as a transcriptional repressor involved in gene silencing and the malignant transformation and biologic aggressiveness of several human carcinomas. Overexpression of BMI-1 is correlated with tumor progression in a variety of malignancies, including B-cell non-Hodgkin lymphoma, esophageal squamous carcinoma, and cancers of the bladder, cervix, ovary and breast. In contrast, loss of BMI expression has been reported to be associated with decreased patient survival in melanoma.

Specifications:

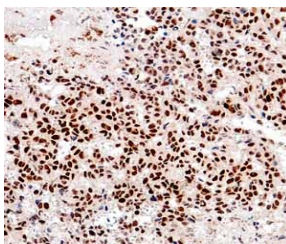
Clone: EP199
 Source: Rabbit
 Isotype: IgG
 Reactivity: Human
 Localization: Nucleus
 Formulation: Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC
 Package:

Description	Catalog No.	Size
BMI-1 Concentrated	RM0009	1 ml
BMI-1 Prediluted	RM0009RTU7	7 ml

IHC Procedure*:

Positive Control Tissue: Breast, breast cancer
 Concentrated Dilution: 50-200
 Pretreatment: EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
 Incubation Time and Temp: 30-60 minutes @ RT
 Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human melanoma stained with anti-BMI-1 using DAB

References:

1. Targeting glioma stem cells through combined BMI1 and EZH2 inhibition. Jin X, et al. Nat Med 23:1352-1361, 2017.
2. KLF4 regulates adult lung tumor-initiating cells and represses K-Ras-mediated lung cancer. Yu T, et al. Cell Death Differ 23:207-15, 2016.
3. Bmi-1 regulates the migration and invasion of glioma cells through p16. Liang J, et al. Cell Biol Int 39:283-90, 2015.
4. ERa inhibits epithelial-mesenchymal transition by suppressing Bmi1 in breast cancer. Wei XL, et al. Oncotarget 6:21704-17, 2015.

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