

**Mouse Anti-BMI-1 [BMI1/2690]: MC0250, MC0250RTU7**

**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:**

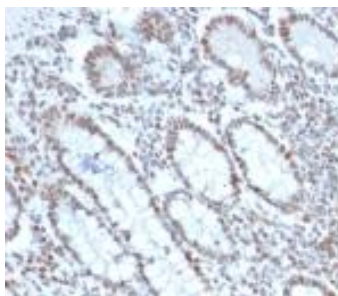
Clone: BMI1/2690  
 Source: Mouse  
 Isotype: IgG2a/k  
 Reactivity: Human  
 Immunogen: Recombinant fragment of human BMI1 protein aa 142-326  
 Localization: Nucleus  
 Formulation: Antibody in PBS pH7.4, containing BSA and  $\leq 0.09\%$  sodium azide (NaN<sub>3</sub>)  
 Storage: Store at 2°- 8°C  
 Applications: IHC  
 Package:

Description	Catalog No.	Size
BMI-1 Concentrated	MC0250	1 ml
BMI-1 Prediluted	MC025RTU7	7 ml

**IHC Procedure\*:**

Positive Control Tissue: Breast, breast cancer  
 Concentrated Dilution: 50-200  
 Pretreatment: Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes 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 colon carcinoma 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.