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36-3152: Anti-BMI1 (Oncogene and Stem Cell Marker) Monoclonal Antibody(Clone: BMI1/2823)

Clonality :	Monoclonal
Clone Name :	BMI1/2823
Application :	WB,IF,IHC
Reactivity :	Human, Mouse
Gene :	BMI1
Gene ID :	648
Uniprot ID :	P35226
Alternative Name :	B lymphoma Mo MLV insertion region 1 homolog; BMI1; BMI1 polycomb ring finger oncogene; FLVI2/BMI1; Oncogene BMI1; PCGF4; Polycomb complex protein BMI-1; Polycomb group ring finger 4; RING finger protein 51; RNF51
Isotype :	Mouse IgG1, kappa
Immunogen Information :	Recombinant fragment (around aa 142-326) of human BMI1 protein (exact sequence is proprietary)

Description

The B cell-specific moloney murine leukemia virus integration site 1 (Bmi-1) is a transcriptional receptor of the polycomb gene family involved in several cellular processes including cell-cycle regulation, apoptosis, and maintenance of adult and neoplastic stem cells by providing self-renewal capacity. Further, Bmi-1 expression has been associated with malignant transformation, tumor progression, metastatic disease, and poor prognosis in human malignancies.

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage condition :	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

Application Note

Western Blot (1-2ug/ml); Immunofluorescence (1-2ug/ml);,Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);

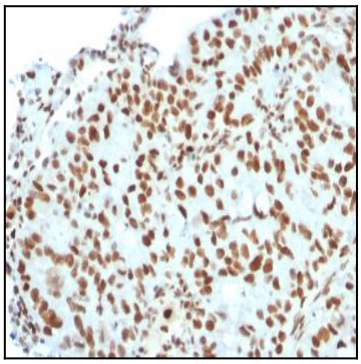


Fig. 1: Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with BMI1 Mouse Monoclonal Antibody (BMI1/2823).

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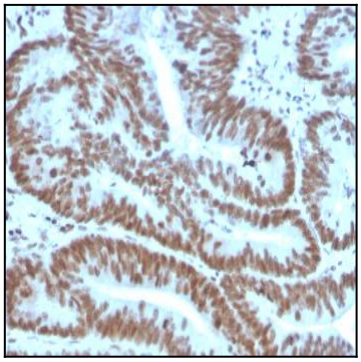


Fig. 2: Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with BMI1 Mouse Monoclonal Antibody (BMI1/2823).

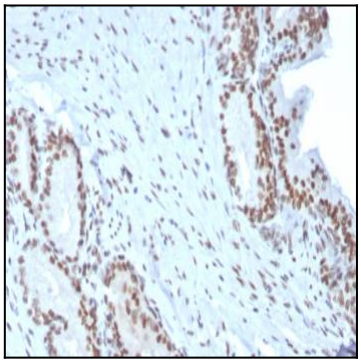


Fig. 3: Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with BMI1 Mouse Monoclonal Antibody (BMI1/2823).

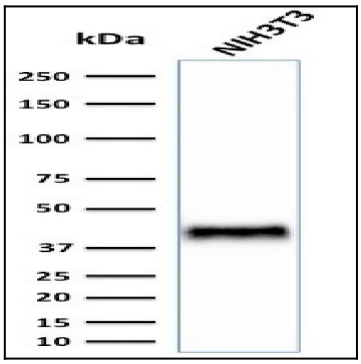


Fig. 4: Western Blot Analysis of Human NIH3T3 cell lysate using BMI1 Mouse Monoclonal Antibody (BMI1/2823).

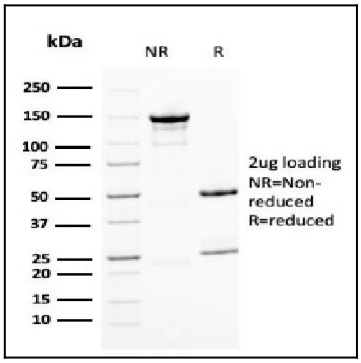


Fig. 5: SDS-PAGE Analysis Purified BMI1 Mouse Monoclonal Antibody (BMI1/2823). Confirmation of Integrity and Purity of Antibody.

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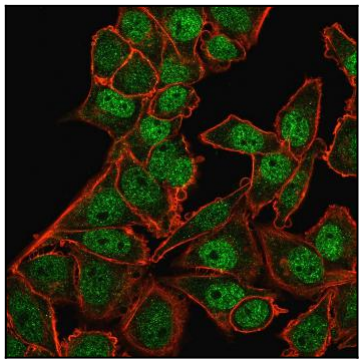


Fig. 6: Immunofluorescence Analysis of PFA-fixed HeLa cells labeling BMI1 with BMI1 Mouse Monoclonal Antibody (BMI1/2823) followed by Goat anti-Mouse IgG-CF488 (Green). Membrane is labeled with Phalloidin.

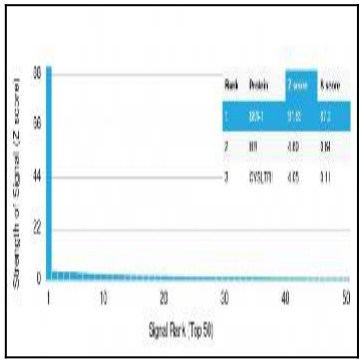


Fig. 7: Analysis of Protein Array containing more than 19,000 full-length human proteins using BMI1 Mouse Monoclonal Antibody (BMI1/2823) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.

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