BMI-1 antibody (mAb)

Catalog No.: RA9025

Basic Information

Molecular weight
40 kDa

Category
Monoclonal antibody

Applications
ChIP, ChIP-Seq, IF, IHC, WB

Cross-Reactivity
Human, Mouse

Background

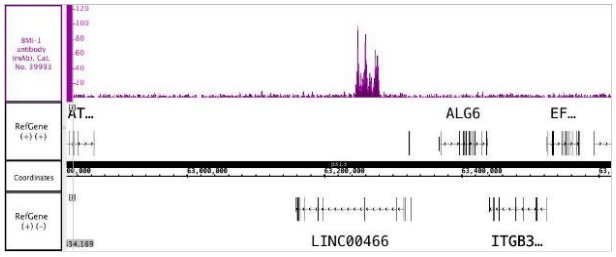
BMI-1 is a member of the Polycomb PRC1 complex that is recruited to transcriptionally repressed genes subsequent to histone H3 lysine 27 methylation in order to maintain repression. In the PRC1 complex, BMI-1 is required to stimulate the E3 ubiquitin-protein ligase activity of RNF2/RING2, resulting in the ubiquitylation of histone H2A at lysine 119. BMI-1 acts as an oncogene and cooperates with c-myc in the initiation of lymphoma. High levels of expression of BMI-1 are observed in metastatic melanoma, and BMI-1 has been implicated in several other cancers. BMI-1 is required for hematopoietic stem cell self renewal.

Recommended Dilutions

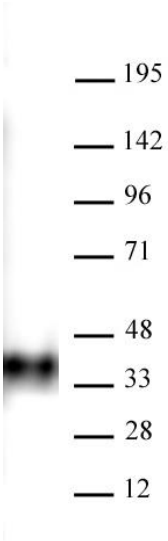
WB	0.5-2μg/ml
ChIP-Seq	4 μg

Product Information

Source	Mouse
Isotype	IgG2a
Purification	Protein G Chromatography
Storage buffer	Purified IgG in 70 mM Tris (pH 8), 105 mM NaCl, 31 mM glycine, 0.07 mM EDTA, 30% glycerol and 0.035% sodium azide. Sodium azide is highly toxic.
Storage Conditions	Some products may be shipped at room temperature. This will not affect their stability or performance. Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20°C for up to 2 years. Keep all reagents on ice when not in storage.



BMI-1 antibody (mAb) tested by ChIP-Seq.Chromatin immunoprecipitation (ChIP) was performed using the ChIP-IT High Sensitivity Kit (Cat. No. 53040) with 30 ug of chromatin from mouse embryonic fibroblast (MEF) cells and 4 ug BMI-1 antibody. ChIP DNA was sequenced on the Illumina NextSeq and 10 million sequence tags were mapped to identify BMI-1 binding sites.



BMI-1 antibody (mAb) tested by Western blot. 20 ug of K562 cell nuclear extract was run on SDS-PAGE and probed with BMI-1 antibody at 0.5 ug/ml. For optimal results, we recommend the addition of 0.05% Tween 20 to all blocking solutions to reduce background.