

Mouse anti-Human, Mouse BMI-1 Antibody | anti-BMI-1 antibody

AbFlex BMI-1 antibody (rAb)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA60271	Mouse	Human, Mouse	Western Blot, Chromatin Immunoprecipitation, Immunoprecipitation, Chromatin Immunoprecipitation, Immunoprecipitation

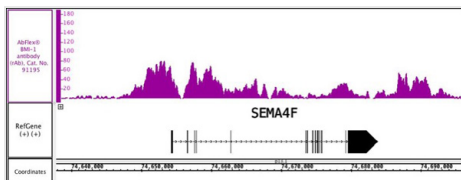
PRODUCT SYNONYMS

BMI-1; AbFlex BMI-1 antibody (rAb); PCGF4; RNF51; FLVI2/BMI1; anti-BMI-1 antibody

PRODUCT SPECIFICATIONS

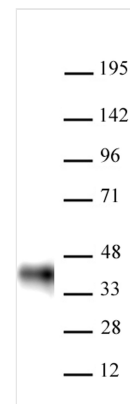
Host	Mouse
Reactivity	Human, Mouse
Isotype	IgG2a
Purity/Purification	Protein A Chromatography
Form/Format	Purified IgG in 140mM Hepes, pH7.5, 70mM NaCl, 35mM NaOAc, 0.07% sodium azide, 30% glycerol. Sodium azide is highly toxic.
Concentration	1ug/ul (varies by lot)
Applicable Applications for anti-BMI-1 antibody	WB (Western Blot), ChIP (Chromatin immunoprecipitation), ChIP (Chromatin immunoprecipitation)
Antibody Type	Recombinant Antibody
Immunogen	This antibody was raised against full length human BMI1 [BMI1 polycomb ring finger oncogene].
Preparation and Storage	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 degree C for up to 2 years. Keep all reagents on ice when not in storage.1ug/ul

IMAGES



ChIP (Chromatin Immunoprecipitation)

AbFlex BMI-1 recombinant antibody (rAb) tested by ChIP-Seq Chromatin immunoprecipitation (ChIP) was performed using the ChIP-IT High Sensitivity Kit with 30 ug of mouse embryonic fibroblast (MEF) chromatin and 4 ug of BMI-1 antibody. ChIP DNA was sequenced on the Illumina NextSeq and 9.9 million sequence tags were mapped to identify BMI-1 binding sites on chromosome 2.



SDS-PAGE

Western blot of AbFlex BMI-1 antibody (rAb). 20 ug of K562 cell nuclear extract was run on SDS-PAGE and probed with AbFlex BMI-1 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-BMI-1 antibody	Short Description: AbFlex antibodies are recombinant antibodies (rAbs) that have been generated using defined DNA sequences to produce highly specific, reproducible antibodies. Each AbFlex antibody contains a 6xHis-tag, a Biotinylation Tag for enzymatic biotin conjugation using the biotin ligase, BirA, and a sortase recognition motif (LPXTG) to attach a variety of labels directly to the antibody including fluorophores, enzymatic substrates (HRP, AP), peptides, drugs as well as solid supports. Our AbFlex BMI-1 antibody (rAb) was raised in a Mouse host. It has been validated for use in Chromatin Immunoprecipitation, ChIP-Seq and Western blot; it has been shown to react with Human and Mouse samples. Background: AbFlex antibodies are recombinant antibodies (rAbs) that have been generated using defined DNA sequences to produce highly specific, reproducible antibodies. Each AbFlex antibody contains a 6xHis-tag, a Biotinylation Tag for enzymatic biotin conjugation using the biotin ligase, BirA, and a sortase recognition motif (LPXTG) to attach a variety of labels directly to the antibody including fluorophores, enzymatic substrates (HRP, AP), peptides, drugs as well as solid supports. 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.
Product Categories/Family for anti-BMI-1 antibody	Primary Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	27883842
NCBI GeneID	648
NCBI Accession #	NP_005171; AB_2793798
NCBI GenBank Nucleotide #	NM_005180
UniProt Accession #	P35226; Q16030; Q5T8Z3; Q96F37
Molecular Weight	36,949 Da
NCBI Official Full Name	polycomb complex protein BMI-1
NCBI Official Synonym Full Names	BMI1 proto-oncogene, polycomb ring finger
NCBI Official Symbol	BMI1
NCBI Official Synonym Symbols	PCGF4; RNF51; FLV12/BMI1
NCBI Protein Information	polycomb complex protein BMI-1; B lymphoma Mo-MLV insertion region 1 homolog; BMI1 polycomb ring finger oncogene; BMI1 polycomb ring finger proto-oncogene; flvi-2/bmi-1; murine leukemia viral (bmi-1) oncogene homolog; polycomb group RING finger protein 4;
UniProt Protein Name	Polycomb complex protein BMI-1
UniProt Gene Name	BMI1
UniProt Synonym Gene Names	PCGF4; RNF51
UniProt Entry Name	BMI1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.