

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human BMI-1 in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human BMI-1 Asp96-Gly326 Accession # P35226
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

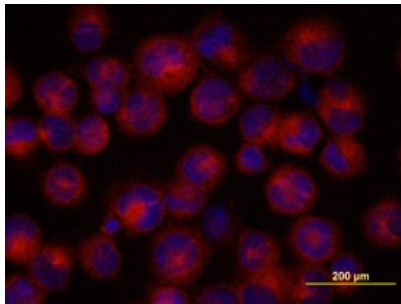
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Human BMI-1
Immunocytochemistry	5-15 µg/mL	See Below
Intracellular Staining by Flow Cytometry	2.5 µg/10 ⁶ cells	HeLa human cervical epithelial carcinoma cell line fixed with paraformaldehyde and permeabilized with saponin
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

Immunocytochemistry



BMI-1 in K562 Human Cell Line. BMI-1 was detected in immersion fixed K562 human chronic myelogenous leukemia cell line using 10 µg/mL Goat Anti-Human BMI-1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3334) for 3 hours at room temperature. Cells were stained with the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

BMI-1 (B cell-specific Moloney-MLV Integration site 1) is a 45 kDa protooncogene that is a class II member of the Polycomb group of genes. It participates in the formation of large multimeric complex termed PRC1 that inhibits target gene transcription loss of BMI-1 function and precludes stem cells from self-replicating. The amino acid sequence of human BMI-1 is 99%, 97%, 99%, and 99% identical to that of bovine, mouse, feline, and canine BMI-1, respectively.