

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human BMI-1 in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG _{2A} Clone # 384515
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human BMI-1 Asp96-Gly326 Accession # P35226
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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
Intracellular Staining by Flow Cytometry	0.25-1 µg/10 ⁶ cells	HeLa human cervical epithelial carcinoma cell line fixed with paraformaldehyde and permeabilized with saponin

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

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 a large multimeric complex termed PRC1 that inhibits target gene transcription. Loss of BMI-1 function precludes stem cells from self-replicating. Human BMI-1 contains an N-terminal RING-finger domain (aa 17-56), an NLS (aa 81-95) and a C-terminal Pro/Ser-rich region (aa 251-326). Human BMI-1 shares 99%, 97%, 99% and 99% aa sequence identity with bovine, mouse, feline and canine BMI-1, respectively.

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