Human/Mouse Bcl-6 Antibody

Monoclonal Rat IgG_{2B} Clone # 603406

Catalog Number: MAB5046

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects mouse Bcl-6 in direct ELISAs. In direct ELISAs, 50-100% cross-reactivity with recombinant mouse (rm) Bcl-6b is observed. No cross-reactivity with rmBcl-2a, rmBcl-x, recombinant human (rh) Bcl-2, -2-L12, -3, -9, 9-2, -10, -11a, -11b, -w, or -xL is observed.
Source	Monoclonal Rat IgG_{2B} Clone # 603406
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E.coli*-derived recombinant mouse Bcl-6 Glu522-696 Accession # Q8CB25
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

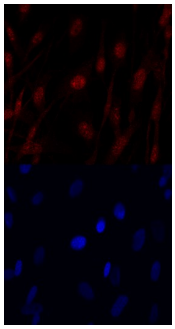
APPLICATIONS

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
Immunocytochemistry	8-25 µg/mL	See Below
Intracellular Staining by Flow Cytometry	2.5 µg/10^6 cells	See Below

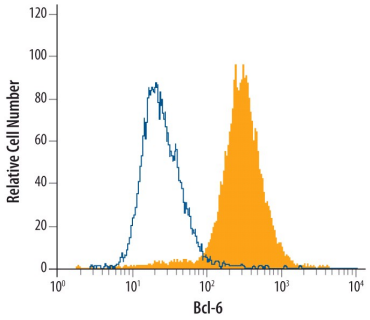
DATA

Immunocytochemistry



Bcl-6 in NIH-3T3 Mouse Cell Line. Bcl-6 was detected in immersion fixed NIH-3T3 mouse embryonic fibroblast cell line using Mouse Bcl-6 Monoclonal Antibody (Catalog # MAB5046) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rat IgG Secondary Antibody (red, upper panel; Catalog # NL013) and counterstained with DAPI (blue, lower panel). Specific staining was localized to nuclei. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

Intracellular Staining by Flow Cytometry



Detection of Bcl-6 in Raji Human Cell Line by Flow Cytometry. Raji human Burkitt's lymphoma cell line was stained with Mouse Bcl-6 Monoclonal Antibody (Catalog # MAB5046, filled histogram) or isotype control antibody (Catalog # MAB0061, open histogram), followed by Phycoerythrin-conjugated Anti-Rat IgG $F(ab')_2$ Secondary Antibody (Catalog # F0105B). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with saponin.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month from date of receipt, 2 to 8 °C, reconstituted. ● 6 months from date of receipt, -20 to -70 °C, reconstituted.

BACKGROUND

Bcl-6 (Bcell lymphoma protein 6; also ZFP51, LAZ-3 and Bcl-5) is an 80 kDa member of the Kruppel-like family of zinc finger proteins. It is expressed in germinal center B cells, neutrophils, monocytes, and immature dendritic cells, and serves as a potent transcriptional repressor of genes such as p53. Human Bcl-6 is706 amino acids (aa) in length and contains an N-terminal BTB/POZ protein interaction domain (aa 32- 99) and a series of six C2H2-type C-terminal zinc finger domains that bind DNA (aa 518-681). Centrally located are three PEST sequences (aa 336-430) that undergo phosphorylation by MAPK. This increases the molecular weight of Bcl-6 to 97 kDa and induces its degradation. Human Bcl-6 is about 99% aa identical to mouse and canine Bcl-6.