

Certificate of Analysis

Anti-Bcl2, clone 100

(mouse monoclonal IgG₁)

Catalog # 05-729

Lot # 33553

Immunogen: Synthetic peptide corresponding to amino acids 41-54 of human Bcl2 protein. The immunizing sequence is identical in canine and feline.

Specificity: Bcl2, Mr 26kDa.

Species Cross-reactivity: Human. Predicted to cross-react with feline and canine, based on sequence homology.

Formulation: 100µg protein G purified mouse IgG₁ in 100µl of 70% storage buffer (PBS with 0.09% sodium azide) and 30% glycerol. Store at -20°C.

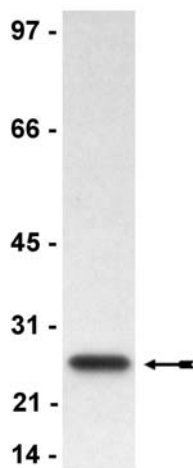
Storage and Stability: Stable for 2 years at -20°C from date of shipment.

Handling Recommendations: Upon receipt, and prior to removing the cap, centrifuge the vial and gently mix the solution. Aliquot into microcentrifuge tubes and store at -20°C. **Avoid repeated freeze/thaw cycles, which may damage IgG and affect product performance.** Note: Variability in freezer temperatures below -20°C may cause glycerol-containing solutions to become frozen during storage.

**FOR RESEARCH USE ONLY
NOT FOR USE IN HUMANS**

Quality Control Testing

Immunoblot Analysis: 0.5-2µg/ml of this lot detected Bcl2 in a Raji RIPA cell lysate.



Immunoblot Analysis
Representative blot from a previous lot. Raji cell lysate was resolved by electro-phoresis, transferred to nitro-cellulose and probed with anti-Bcl2 (1.0µg/ml). Proteins were visualized using a goat anti-mouse secondary antibody con-jugated to HRP and a chemi-luminescence detection system. Arrow indicates Bcl2 (~26kDa).

Additional Research Applications

Immunohistochemistry: An independent laboratory has reported that this antibody detects Bcl2 in paraffin and acetone-fixed tissues.^{1, 2, 3}

FACS Analysis: Recommended.

Application References:

1. Pezzella, F., *et al.*, Am. J. Pathol. **137**: 225-232, 1990.
2. Pezzella, F., *et al.*, J. Cancer **65**: 87-89, 1992.
3. Pezzella, F., *et al.*, New Eng. J. Med. **329**: 690-694, 1993.

Immunoblot Protocol

1. Perform SDS-polyacrylamide gel electrophoresis (SDS-PAGE) on a cell lysate sample (cell lysis buffer: 50mM Tris-HCl, pH 7.4; 1% NP-40; 0.25% sodium deoxycholate; 150mM NaCl; 1mM EDTA; 1mM PMSF; 1 μ g/ml aprotinin, leupeptin, pepstatin; 1mM Na₃VO₄; 1mM NaF) and transfer the proteins to nitrocellulose. Wash the blotted nitrocellulose twice with water.
2. Wash the blotted nitrocellulose with PBS-0.05% Tween[®]-20 for 10 minutes.
3. Block the blotted nitrocellulose in freshly prepared PBS containing 3% nonfat dry milk (Catalog # 20-200) and 0.05% Tween[®]-20 (PBST-MLK) for 20 minutes at room temperature with constant agitation.
4. Incubate the nitrocellulose with **0.5-2 μ g/ml of anti-Bcl2**, diluted in freshly prepared PBST-MLK overnight with agitation at 4°C.
5. Wash the nitrocellulose twice with water.
6. Incubate the nitrocellulose in the secondary reagent of choice (a goat anti-mouse HRP conjugated IgG, Catalog # 12-349, 1:5000 dilution, was used) in PBST-MLK for 1 hour at room temperature with agitation.
7. Wash the nitrocellulose twice with water.
8. Wash the nitrocellulose in PBS-0.05% Tween[®]-20 for 3-5 minutes.
9. Rinse the nitrocellulose in 4-5 changes of water.
10. Use detection method of choice (enhanced chemiluminescence was used).