

## Technical Data Sheet

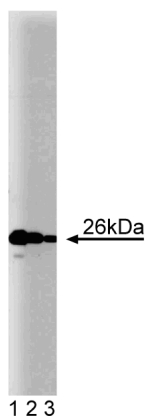
**Purified Mouse Anti-Bcl-2****Product Information**

<b>Material Number:</b>	<b>610538</b>
<b>Size:</b>	50 µg
<b>Concentration:</b>	250 µg/ml
<b>Clone:</b>	7/Bcl-2
<b>Immunogen:</b>	Human Bcl-2 aa. 49-179
<b>Isotype:</b>	Mouse IgG1
<b>Reactivity:</b>	QC Testing: Human Tested in Development: Chicken, Dog, Mouse, Rat
<b>Target MW:</b>	26 kDa
<b>Storage Buffer:</b>	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

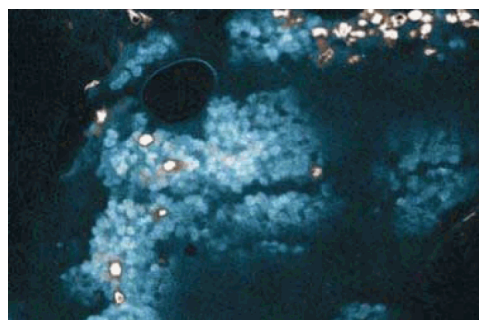
**Description**

Human hematopoietic malignancies are often characterized by gene rearrangements which deregulate gene expression. The Bcl-2 gene (B-cell leukemia/lymphoma 2) was discovered by walking the chromosomal breakpoints t(14;18). This gene consists of two exons and several transcripts that encode two different protein products, Bcl-2α and Bcl-2β. Both are approximately 26-30kDa and differ at their C-terminal region. Bcl-2 suppresses programmed cell death (apoptosis) and this property appears to be modulated by homodimerization or association with Bax and Bad, two cell death promoters.

This antibody is routinely tested by western blot analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



**Western blot analysis of Bcl-2 (clone 7) on Jurkat lysate.** Lane 1: 1:500, lane 2: 1:1000, lane 3: 1:2000 dilution of Bcl-2.



**Immunohistochemical staining of Bcl2 (clone 7) on Rabbit Lung**

**Preparation and Storage**

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at -20° C.

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## Application Notes

### Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development
Immunohistochemistry	Tested During Development
Immunoprecipitation	Tested During Development

## Suggested Companion Products

Catalog Number	Name	Size	Clone
611451	Jurkat Cell Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Igs	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Igs	0.5 mg	Polyclonal

## Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to [www.bdbiosciences.com/pharmingen/protocols](http://www.bdbiosciences.com/pharmingen/protocols) for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

## References

Ayllon V, Cayla X, Garcia A, et al. Bcl-2 targets protein phosphatase 1 alpha to Bad. *J Immunol.* 2001; 166(12):7345-7352.(Clone-specific: Immunofluorescence, Immunoprecipitation, Western blot)

Decary S, Decesse JT, Ogryzko V, et al. The retinoblastoma protein binds the promoter of the survival gene bcl-2 and regulates its transcription in epithelial cells through transcription factor AP-2. *Mol Cell Biol.* 2002; 22(22):7877-7888.(Clone-specific: Immunofluorescence, Western blot)

Kihara T, Shimohama S, Sawada H, et al. alpha 7 nicotinic receptor transduces signals to phosphatidylinositol 3-kinase to block A beta-amyloid-induced neurotoxicity. *J Biol Chem.* 2001; 276(17):13541-13546.(Clone-specific: Western blot)

Naga Prasad SV, Laporte SA, Chamberlain D, Caron MG, Barak L, Rockman HA. Phosphoinositide 3-kinase regulates beta2-adrenergic receptor endocytosis by AP-2 recruitment to the receptor/beta-arrestin complex. *J Cell Biol.* 2002; 158(3):563-575.(Clone-specific: Western blot)

Tsujiimoto Y, Croce CM. Analysis of the structure, transcripts, and protein products of bcl-2, the gene involved in human follicular lymphoma. *Proc Natl Acad Sci U S A.* 1986; 83(14):5214-5218.(Biology)