Technical Data Sheet

Purified Rat Anti- Bcl-w

Product Information

Material Number:	**550559**
Size:	50 µg
Concentration:	0.5 mg/ml
Clone:	16H12
Immunogen:	Human Bcl-w full-length Recombinant Protein
Isotype:	Rat IgG2a, κ
Reactivity:	QC Testing: Mouse Reported: Human
Target MW:	21-25 kDa
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide and ≤0.09% Bronidox

Description

The Bcl-2 family of proteins plays a pivotal role in determining the life and death of a cell. Members of the Bcl-2 family all possess at least one of four conserved Bcl-2 homology domains (BH1-BH4) which mediate protein-protein interactions. They can be divided into molecules that have either an anti-apoptotic or pro-apoptotic function. The ratio between these two groups of molecules can help determine whether a cell lives or dies. The majority of anti-apoptotic family members contain common BH1-BH4 domains and are most similar to Bcl-2. Bcl-w is a member of the antiapoptotic Bcl-2 group of proteins, including Bcl-x, Mcl-1, A1/Bfl-1, Boo/Diva, and Nr-13. Bcl-w was cloned from a mouse macrophage cell line and mouse brain. Bcl-w was found to be expressed in cells of myeloid origin, as well as many other tissues. The Bcl-w gene was inactivated in mice by homologous recombination and the resulting mice were viable and normal in appearance. Tissue histology demonstrated that male mice had reduced Sertoli and germ cells as well as having defective seminiferous tubules, resulting in infertility, while female mice had normal reproductive function.

Western blot analysis for Bcl-w. *Lysates from mouse brain tissue were probed with the rat anti- Bcl-w antibody at concentrations of 0.5 µg/mL (lane 1), 0.25 µg/mL (lane 2), and 0.125 µg/mL (lane 3). Bcl-w may be observed to be migrating in a range from 21-25 kDa.*

Preparation and Storage

Store undiluted at 4°C.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Application Notes

Application

Western blot	Routinely Tested

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml

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Suggested Companion Products

Catalog Number	Name	Size	Clone
554017	HRP Goat Anti-Rat Ig	1.0 ml	Polyclonal

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. 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.
3. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

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