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RAT ANTI MOUSE Bim_S ANTIBODY, MONOCLONAL ANTIBODY

CATALOG NUMBER: MAB17001-250UG

LOT NUMBER:

QUANTITY: 250 µg (1 mg/ml)

CLONE: 14A8

DESCRIPTION

Purified rat monoclonal antibody IgG2a Kappa isotype raised against recombinant mouse Bim_{Short} (Bim_S) protein. The antibody recognises a reactive epitope that is common to all splice variants of Bim including Bim_{Extra Long}, Bim_{Long} and Bim_{Short}. These antibodies can be used for the detection of Bim by standard techniques including Western blot, immunoprecipitation, immunohistochemistry and FACS. This antibody is highly sensitive and can, in most cases, recognize endogenous levels of Bim_S*.

PRODUCT FORMAT

Purified antibody at a concentration of 1mg/mL containing 0.05% Bronidox as preservative.

PURITY AND STERILITY

The antibody is shown to be >95% pure as determined by SDS-PAGE. The Bim_S antibody is supplied 0.22 micron filtered.

STORAGE AND STABILITY

Bim_S antibody is shipped at ambient temperature. Store at 2-8°C, for up to 6 months.

APPLICATIONS

The antibody is intended for the detection of all splice variants of Bim in a range of techniques including:

- Western blot
- immunoprecipitation
- FACS
- immunohistochemistry.

It should be noted that the levels of antibody quoted here are intended to serve as a guide only. The optimal concentration should be determined empirically by the end user.

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PROTOCOLS

Western blot

In Western blot analysis, it is recommended that the antibody be used at a concentration of 1µg/mL, which has been demonstrated to detect 1x10⁴ Bim_L overexpressing cells or 50ng of Bim_L recombinant protein. For the detection of endogenous Bim expression from either tissue* or cell lines*, it is recommended that the antibody be used at a concentration of 1-2µg/mL.

FACS

For FACS analysis of Bim overexpressing cell lines, it is recommended that the antibody be used at a concentration of 0.5µg/mL. It is necessary to permeabilise the cell membrane prior to analysis.

Immunoprecipitation

For immunoprecipitation of endogenous levels of Bim from cell lines* or tissue*, it is recommended that the antibody be used at a concentration of 1-2µg/mL.

Immunofluorescence

For immunofluorescence techniques, it is recommended that the antibody be used at a concentration of 1-5µg/mL.

*Examples of cell lines tested for endogenous Bim expression are the T lymphoma cell lines B6.2.16.BW2 or KO52.DA20, B cell lymphoma line ABL5.8.1 and human breast carcinoma cell line MCF-7. It is necessary to use cell lysate from 1x10⁷ cells. For detection of Bim expression in tissue samples, it is necessary to use 1-5mg of total protein from an appropriate tissue source.

WARRANTY

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REFERENCES

1. O'Connor L., Strasser A., O'Reilly L.A., Hausmann G. *et al.* (1998) Bim: a novel member of the Bcl-2 family that promotes apoptosis. *EMBO J*, **17(2)** 384-395.
2. O'Reilly L.A., Cullen L., Moriishi K., O'Connor L. *et al.* (1998) Rapid hybridoma screening method for the identification of monoclonal to low-abundance cytoplasmic proteins. *Biotechniques*, **25** 824-830.

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3. Puthalakath H., Huang D.C., O'Reilly L.A., King S.M. *et al.* (1999) The proapoptotic activity of the Bcl-2 family member Bim is regulated by the interaction with the dynein motor complex. *Molecular Cell*, **3(3)** 287-296.



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