



ANTI-BIM MONOCLONAL ANTIBODY CERTIFICATE OF ANALYSIS

CATALOG NUMBER:	MAB17001-50UG	QUANTITY:	50 µg
LOT NUMBER:		CONCENTRATION:	1 mg/mL
ALTERNATE NAMES:	Bcl-2-like protein 11	EPITOPE:	N-terminus aa 2-72
CLONE NAME:	14A8	HOST/ISOTYPE:	Rt IgG2a
BACKGROUND:	<p>Proapoptotic Bcl-2 family members activate cell death by neutralizing their anti-apoptotic relatives, which in turn maintain cell viability by regulating the activation of the cell death effectors, the caspases. Bim belongs to a distinct subgroup of proapoptotic proteins that only resemble other Bcl-2 family members within the short BH3 (Bcl-2 homology domain 3) domain. Gene targeting experiments in mice have shown that Bim is essential for the execution of some but not all apoptotic stimuli, for hematopoietic cell homeostasis, and as a barrier against autoimmunity. There are three Bim isoforms, BimS, BimL, and BimEL, which have different proapoptotic potencies due at least in part to differences in interaction with the dynein motor complex. {O'Reilly, LA et al 2000}. Bim is known to react with other BCL-2 family members including BCL2, BCL2L1/BCL-X(L), and MCL1, and to act as an apoptotic activator. The expression of this gene can be induced by nerve growth factor (NGF), as well as by the forkhead transcription factor FKHR-L1, which suggests a role of this gene in neuronal and lymphocyte apoptosis. {http://labs.fhrc.org/paulovich/Biodosimetry/Proteins/B/BIM/bim_protein_summary.html}.</p>		
SPECIFICITY:	<p>The clone 14A8 recognizes an epitope common to all three isoforms of Bim: BimS, BimL and BimEL {O'Reilly, LA et al 2000}. The clone recognizes both human and mouse forms of Bim; experiments using western blotting, immunofluorescence staining and immunoprecipitation demonstrated that 14A8 is highly specific for Bim and does not detect Bcl-2, Bcl-w, Bcl-XL, Bak, Bax, or the BH3-only protein Bad {{O'Reilly, LA et al 2000}. Bim protein bands in reduced westerns are: BimEL (23 kDa), BimL (20 kDa), and BimS (18 kDa).</p>		
IMMUNOGEN:	Recombinant mouse BimS protein		
APPLICATIONS:	<p>Western blot: 1 µg/mL, whole cell lysates Immunofluorescence: 1-5 µg/mL, 2% PFA, PLP fixed frozen tissues, with permeabilization. Immunoprecipitation: cell lysates containing 1.5-3 mg/mL total protein, use 2-5 µg of antibody per 500 µL lysate in PBS with 0.5-1.0% of triton X-100 and proteinase inhibitors {O'Reilly, LA et al 2000}.</p> <p>FACS : methanol or acetone fixed cells, 1 µg/100 µL cell, 1x10⁶ cells/mL</p>		
SPECIES REACTIVITY:	Human and mouse, other species not yet tested.		
PRESENTATION:	Protein G purified immunoglobulin in PBS containing 0.05% Bronidox, pH 7.4 as a		

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preservative.

STORAGE/HANDLING: Store antibody in aliquots, tightly sealed at 2° to 8° C; avoid multiple warm and chill cycles. Product valid for up to 24 months from date of receipt.

REFERENCES: O'Reilly, LA et al (2000). "The Proapoptotic BH3-Only protein Bim is expressed in Hematopoietic, Epithelial, Neuronal, and Germ Cells." Amer. J. Pathol. 157(2):449-461. {original article} Hu, Ms, IP, IB, IF.

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28820 Single Oak Drive • Temecula, CA 92590
Technical Support: T: 1-800-MILLIPORE (1-800-645-5476) • F: 1-800-437-7502
www.millipore.com