



ANTI-BIM_L RAT MONOCLONAL ANTIBODY CERTIFICATE OF ANALYSIS

CATALOG NUMBER:	MAB3129-250UG	QUANTITY:	250 µg
LOT NUMBER:		CONCENTRATION:	1 mg/mL
ALTERNATE NAMES:	Bcl-2-like protein 11	EPITOPE:	N-terminus aa 2-72
CLONE NAME:	5E5	HOST/ISOTYPE:	Rt IgG2b
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 5E5 recognizes only the BimL isoform. The monoclonal does not detect the other Bim isoform, or Bcl-2, Bcl-w, Bcl-xL, Bak, Bad, or the BH3-only protein Bad {O'Reilly, LA et al 2000}. It's epitope is localized to the N-termina fragment (aa2-72) and not to the BH3 domain of Bim. mAb 5E5 also detected an unknown 26 kDa protein that was present in some kidney cell lines (e.g. 293T cells) but not in other cell types {O'Reilly, LA et al 2000}.</p>		
IMMUNOGEN:	Recombinant mouse BimS protein		
APPLICATIONS:	<p>Western blot: 1 µg/mL, whole cell lysates, detects ~ 18kDa protein 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>		
	FACS : methanol or acetone fixed cells, 1 µg/100 µL cell, 1x10 ⁶ cells/mL		
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 preservative.		

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STORAGE/HANDLING: Store antibody in aliquots, tightly sealed at 2° to 8° C; avoid multiple warm and chill cycles. Store product up to expiration date on vial label.

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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Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 μ L or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

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