

Monoclonal Antibody to Bcl-2-like 11 - Aff - Purified

Alternate names:	BCL2L11, BIM, Bcl2-L-11, Bcl2-interacting mediator of cell death, BimEL, BimL, BimS
Catalog No.:	AM12008PU-N
Quantity:	0.1 mg
Concentration:	1.0 mg/ml
Background:	Bim (Bcl2-interacting mediator) is a pro-apoptotic protein of BH3 domain-only subgroup of the Bcl2 family. It has important roles in initiation of apoptosis in response to many death stimuli. Bim is an important regulator of B and T cell negative selection and is also an essential regulator of T cell apoptosis during termination of an immune response. Bim is constitutively expressed in many cell types but it is maintained in an inactive form through binding to the microtubule-associated dynein motor complex.
Uniprot ID:	O54918
NCBI:	NP_033884
GeneID:	12125
Host / Isotype:	Hamster / IgG1
Clone:	Ham151-149
Immunogen:	Mouse BimL (w/o transmembrane region) + Bcl-xL (w/o transmembrane region)-6-his tag, purified from Hi5 cells
Format:	State: Liquid Ig fraction Purification: Protein A affinity chromatography (> 95% pure by SDS-PAGE) Buffer System: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Applications:	Flow cytometry: 10 µg/ml (Cells permeabilized with 0.03% saponin). Immunoprecipitation: 1-2 µg/100-500 µg of protein in 1 ml lysate. Western blot: 1-2 µg/ml (reducing conditions). Immunocytochemistry on permeabilized cells. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody reacts with Bim, a 19-24 kDa pro-apoptotic protein (Bcl-2 family) which regulates immunological responses.
Species Reactivity:	Tested: Mouse
Storage:	Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Hughes P, Bouillet P, Strasser A. Role of Bim and other Bcl-2 family members in autoimmune and degenerative diseases. <i>Curr Dir Autoimmun.</i> 2006;9:74-94. PubMed PMID: 16394656.

2. Snow AL, Oliveira JB, Zheng L, Dale JK, Fleisher TA, Lenardo MJ. Critical role for BIM in T cell receptor restimulation-induced death. *Biol Direct*. 2008 Aug 20;3:34. doi: 10.1186/1745-6150-3-34. PubMed PMID: 18715501.
3. Ludwinski MW, Sun J, Hilliard B, Gong S, Xue F, Carmody RJ, Devirgiliis J, Chen YH: Critical roles of Bim in T cell activation and T cell-mediated autoimmune inflammation in mice. *J Clin Invest*. 2009 May 1. pii: 37619. doi: 10.1172/JCI37619. [Epub ahead of print]
4. Yang Y, Zhao Y, Liao W, Yang J, Wu L, Zheng Z, et al. Acetylation of FoxO1 activates Bim expression to induce apoptosis in response to histone deacetylase inhibitor depsipeptide treatment. *Neoplasia*. 2009 Apr;11(4):313-24. PubMed PMID: 19308286.
5. Wang X, Xing D, Liu L, Chen WR: BimL directly neutralizes Bcl-xL to promote Bax activation during UV-induced apoptosis. *FEBS Lett*. 2009 May 8. [Epub ahead of print]
6. Oliver PM, Wang M, Zhu Y, White J, Kappler J, Murrack P: Loss of Bim allows precursor B cell survival but not precursor B cell differentiation in the absence of interleukin 7. *J Exp Med*. 2004 Nov 1;200(9):1179-87.
7. Jorgensen TN, McKee A, Wang M, Kushnir E, White J, Refaeli Y, et al. Bim and Bcl-2 mutually affect the expression of the other in T cells. *J Immunol*. 2007 Sep 15;179(6):3417-24. PubMed PMID: 17785775.