Bim (C34C5) Rabbit mAb (Alexa Fluor[®] 488 Conjugate)



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Applications: FC-FP	Reactivity: H M R	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #O43521	Entrez-Gene Id: 10018
Product Usage Information		Application Flow Cytometry (Fixed/P	ermeabilized)		Dilution 1:50
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.			
Specificity/Sensitivity		Bim (C34C5) Rabbit mAb (Alexa Fluor [®] 488 Conjugate) detects endogenous levels of total Bim (EL, L and S isoforms) protein.			
Species predicte based on 100% s homology	ed to react sequence	Monkey, Bovine, Dog, Pi	g		
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro25 of Bim.			
Description		This Cell Signaling Technology antibody is conjugated to Alexa Fluor [®] 488 fluorescent dye and tested in-house for direct flow cytometric analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Bim (C34C5) Rabbit mAb #2933.			
Background		Bim/Bod is a pro-apoptotic protein belonging to the BH3-only group of Bcl-2 family members including Bad, Bid, Bik, Hrk, and Noxa that contain a BH3 domain but lack other conserved BH1 or BH2 domains (1,2). Bim induces apoptosis by binding to and antagonizing anti-apoptotic members of the Bcl-2 family. Interactions have been observed with Bcl-2, Bcl-xL, Mcl-1, Bcl-w, Bfl-1, and BHRF-1 (1,2). Bim functions in regulating apoptosis associated with thymocyte negative selection and following growth factor withdrawal, during which Bim expression is elevated (3-6). Three major isoforms of Bim are generated by alternative splicing: Bim_{L} , Bim_{L} , and Bim_{S} (1). The shortest form, Bim_{S} , is the most cytotoxic and is generally only transiently expressed during apoptosis. The Bim_{EL} and Bim_{L} isoforms may be sequestered to the dynein motor complex through an interaction with the dynein light chain and released from this complex during apoptosis (7). Apoptotic activity of these longer isoforms may be regulated by phosphorylation (8,9). Environmental stress triggers Bim phosphorylation by JNK and results in its dissociation from the dynein complex and increased apoptotic activity.			
Background References		 O'Connor, L. et al. (1998) EMBO J 17, 384-95. Hsu, S.Y. et al. (1998) Mol Endocrinol 12, 1432-40. Bouillet, P. et al. (2002) Nature 415, 922-6. Whitfield, J. et al. (2001) Neuron 29, 629-43. Dijkers, P.F. et al. (2000) Curr Biol 10, 1201-4. Ley, R. et al. (2003) J Biol Chem 278, 18811-6. Puthalakath, H. et al. (1999) Mol Cell 3, 287-96. Lei, K. and Davis, R.J. (2003) Proc Natl Acad Sci U S A 100, 2432-7. Putcha, G.V. et al. (2003) Neuron 38, 899-914. 			

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key H: Human M: Mouse R: Rat

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