

#2767
Store at +4°C**Bcl-xL (54H6) Rabbit mAb (Alexa Fluor® 488 Conjugate)****Cell Signaling**
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: FC-FP	Reactivity: H M R Mk	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #Q07817	Entrez-Gene Id: 598
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Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized)	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	Bcl-xL (54H6) Rabbit mAb (Alexa Fluor® 488 Conjugate) detects endogenous levels of total Bcl-xL protein. The antibody does not cross-react with other Bcl-2 family members.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp61 of human Bcl-xL. The antibody was conjugated to Alexa Fluor® 488 under optimal conditions with an F/P ratio of 2-6.	
Product Description	This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 488 fluorescent dye and tested in-house for direct flow cytometric analysis of human cells. The unconjugated antibody #2764 reacts with human, mouse, rat and monkey Bcl-xL protein. CST expects that Bcl-xL (54H6) Rabbit mAb (Alexa Fluor® 488 Conjugate) will also recognize Bcl-xL in these species.	
Background	Bcl-xL prevents apoptosis through two different mechanisms: heterodimerization with an apoptotic protein inhibits its apoptotic effect (1,2) and formation of mitochondrial outer membrane pores help maintain a normal membrane state under stressful conditions (3). Bcl-xL is phosphorylated by JNK following treatment with microtubule-damaging agents, such as paclitaxel, vinblastine, and nocodazole (4,5).	
Background References	<ol style="list-style-type: none"> 1. Adams, J.M. and Cory, S. (1998) <i>Science</i> 281, 1322-6. 2. Minn, A.J. et al. (1999) <i>EMBO J</i> 18, 632-43. 3. Vander Heiden, M.G. et al. (2001) <i>J Biol Chem</i> 276, 19414-9. 4. Fan, M. et al. (2000) <i>J Biol Chem</i> 275, 29980-5. 5. Poruchynsky, M.S. et al. (1998) <i>Cancer Res</i> 58, 3331-8. 6. Mirlashari, M.R. et al. (2012) <i>Leuk Res</i> 36, 499-508. 	

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 Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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