

Store at +4°C  
#2767

## Bcl-xL (54H6) Rabbit mAb (Alexa Fluor® 488 Conjugate)



**Cell Signaling**  
TECHNOLOGY®

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<b>Applications:</b> FC-FP	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q07817	<b>Entrez-Gene Id:</b> 598
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<b>Product Usage Information</b>	<b>Application</b> Flow Cytometry (Fixed/Permeabilized)	<b>Dilution</b> 1:50
<b>Storage</b>	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.	
<b>Specificity / Sensitivity</b>	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.	
<b>Source / Purification</b>	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.	
<b>Product Description</b>	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.	
<b>Background</b>	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).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Adams, J.M. and Cory, S. (1998) <i>Science</i> 281, 1322-6.</li> <li>2. Minn, A.J. et al. (1999) <i>EMBO J</i> 18, 632-43.</li> <li>3. Vander Heiden, M.G. et al. (2001) <i>J Biol Chem</i> 276, 19414-9.</li> <li>4. Fan, M. et al. (2000) <i>J Biol Chem</i> 275, 29980-5.</li> <li>5. Poruchynsky, M.S. et al. (1998) <i>Cancer Res</i> 58, 3331-8.</li> <li>6. Mirlashari, M.R. et al. (2012) <i>Leuk Res</i> 36, 499-508.</li> </ol>	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Applications Key</b>	<b>FC-FP:</b> Flow Cytometry (Fixed/Permeabilized)
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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