

Store at 4°C

#2767

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

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Entrez-Gene ID #598  
UniProt ID #Q07817

rev. 07/12/17

For Research Use Only. Not For Use In Diagnostic Procedures.

Applications  
F  
Endogenous

Species Cross-Reactivity\*  
H, M, R, Mk

Isotype  
Rabbit IgG

**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.

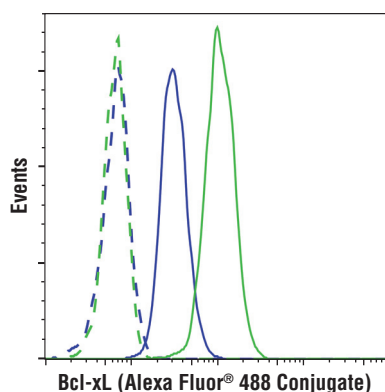
**Background:** Bcl-xL prevents apoptosis through two different mechanisms: heterodimerization with an apoptotic protein inhibits its apoptotic effect (1,2) and formation of mitochondrial outer membrane pores help maintain a normal membrane state under stressful conditions (3). Bcl-xL is phosphorylated by JNK following treatment with microtubule-damaging agents such as paclitaxel, vinblastine and nocodazole (4,5).

**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.

#### Background References:

- (1) Adams, J.M. and Cory, S. (1998) *Science* 281, 1322-1326.
- (2) Minn, A.J. et al. (1999) *EMBO. J.* 18, 632-643.
- (3) Vander Heiden, M.G. et al. (2001) *J. Biol. Chem.* 276, 19414-19419.
- (4) Fan, M. et al. (2000) *J. Biol. Chem.* 275, 29980-29985.
- (5) Poruchynsky, M.S. et al. (1998) *Cancer Res.* 58, 3331-3338.
- (6) Mirlashari, M.R. et al. (2012) *Leuk Res* 36, 499-508.



Flow cytometric analysis of THP-1 cells (blue) and K-562 cells (green) using Bcl-xL (54H6) Rabbit mAb (Alexa Fluor® 488 Conjugate) (solid lines) or concentration-matched Rabbit (DA1E) mAb IgG XP® Isotype Control (Alexa Fluor® 488 Conjugate) #2975 (dashed lines).

**Storage:** Supplied in PBS (pH 7.2), less than 0.1% sodium azide, 2 mg/ml BSA. Store at 4°C. *Protect from light.*  
Do not freeze.

**\*Species cross-reactivity other than human is determined by Western blot using the unconjugated antibody.**

#### Recommended Antibody Dilutions:

Flow Cytometry 1:50

**For product specific protocols and a complete listing of recommended companion products please see the product web page at [www.cellsignal.com](http://www.cellsignal.com)**

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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide Species Cross-Reactivity: H—human M—mouse R—rat Hm—hamster Mk—monkey 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 All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.