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#2767

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

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.

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

- Adams, J.M. and Cory, S. (1998) *Science* 281, 1322-6.
- Minn, A.J. et al. (1999) *EMBO J* 18, 632-43.
- Vander Heiden, M.G. et al. (2001) *J Biol Chem* 276, 19414-9.
- Fan, M. et al. (2000) *J Biol Chem* 275, 29980-5.
- Poruchynsky, M.S. et al. (1998) *Cancer Res* 58, 3331-8.
- Mirlashari, M.R. et al. (2012) *Leuk Res* 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 **Mk:** Monkey

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