

## Rabbit anti-Mouse Bcl-XL Monoclonal Antibody | anti-BCL2L1 antibody

Recombinant Anti-Bcl-XL Antibody, Rabbit Monoclonal

|                               |                       |                            |                                                          |
|-------------------------------|-----------------------|----------------------------|----------------------------------------------------------|
| CATALOG #<br><b>AAA257049</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Mouse</b> | APPLICATIONS<br><b>Immunoprecipitation, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------|----------------------------------------------------------|

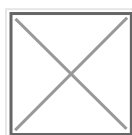
### PRODUCT SYNONYMS

Bcl-XL; Monoclonal Antibody; Recombinant Anti-Bcl-XL Antibody; Rabbit Monoclonal; BCL2L1/Bcl-XL Antibody; Rabbit MAb; BCL2-like 1; Anti-Bcl(X)L Antibody; Anti-bcl-x Antibody; Anti-Bcl-XL Antibody; Anti-bcl2-L-1 Antibody; Anti-Bcl2l Antibody; Anti-BclX Antibody; anti-BCL2L1 antibody

### PRODUCT SPECIFICATIONS

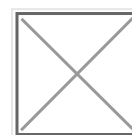
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|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                                                                                                                                                                                                |
| Reactivity                                       | Mouse                                                                                                                                                                                                                                                                 |
| Clonality                                        | Monoclonal                                                                                                                                                                                                                                                            |
| Isotype                                          | Rabbit IgG                                                                                                                                                                                                                                                            |
| Clone Number                                     | 036                                                                                                                                                                                                                                                                   |
| Specificity                                      | Mouse BCL2L1/Bcl-XL                                                                                                                                                                                                                                                   |
| Purity/Purification                              | Protein A                                                                                                                                                                                                                                                             |
| Form/Format                                      | Liquid; 0.2um filtered solution in PBS                                                                                                                                                                                                                                |
| Applicable Applications for anti-BCL2L1 antibody | IP (Immunoprecipitation), WB (Western Blot)                                                                                                                                                                                                                           |
| Antibody Type                                    | Recombinant Antibody                                                                                                                                                                                                                                                  |
| Immunogen                                        | Recombinant Mouse BCL2L1/Bcl-XL Protein                                                                                                                                                                                                                               |
| Conjugation                                      | Unconjugated                                                                                                                                                                                                                                                          |
| Preparation                                      | This antibody was obtained from a rabbit immunized with purified, recombinant Mouse BCL2L1/Bcl-XL (rM BCL2L1/Bcl-XL).                                                                                                                                                 |
| Preparation and Storage                          | This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles. |

### IMAGES



#### WB (Western Blot)

Anti-BCL2L1 rabbit monoclonal antibody at 1:500 dilution Lane A: Jurkat Whole Cell Lysate Lane B: MCF7 Whole Cell Lysate Lane C: K562 Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 26 kDa Observed band size: 30 kDa



#### IP (Immunoprecipitation)

Mouse BCL2L1 was immunoprecipitated using: Lane A: 0.5 mg A549 Whole Cell Lysate Lane B: 0.5 mg K562 Whole Cell Lysate 2 uL anti-Mouse BCL2L1 rabbit monoclonal antibody and 15 uL of 50 % Protein G agarose. Primary antibody: Anti-Mouse BCL2L1 rabbit monoclonal antibody, at 1:200 dilution Secondary antibody: Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution Developed using the odssey technique. Performed under reducing conditions. Predicted band size: 26 kDa Observed band size: 30 kDa

ADDITIONAL INFORMATION

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|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-BCL2L1 antibody | B-cell lymphoma-extra large (Bcl-xl) is a transmembrane molecule in the mitochondria. Bcl-xL (BCL2L1), belongs to the Bcl-2 family. Members of the bcl-2 family encode proteins that function either to promote or to inhibit apoptosis. Antiapoptotic members such as Bcl-2 and Bcl-xL prevent PCD in response to a wide variety of stimuli to take part in cancer survival. Conversely, proapoptotic proteins, exemplified by Bax and Bak, can accelerate death and in some instances are sufficient to cause apoptosis independent of additional signals. The crystal and solution structures of a Bcl-2 family member, Bcl-xL is like this: The structures consist of two central, primarily hydrophobic alpha-helices, which are surrounded by amphipathic helices. A 60-residue loop connecting helices alpha1 and alpha2 was found to be flexible and non-essential for anti-apoptotic activity. Bcl-xL is characterized as an important factor in autophagy, inhibiting Beclin 1-mediated autophagy by binding to Beclin 1. In addition, Beclin 1, Bcl-2 and Bcl-xL can cooperate with Atg5 or Ca2+ to regulate both autophagy and apoptosis. Bcl-xL is also implicated in anoxia induced cell death. The pathway is initiated by the loss of function of the prosurvival Bcl-2 family members Mcl-1 and Bcl-2/Bcl-XL, resulting in Bax-or Bak-dependent release of cytochrome c and subsequent caspase-9-dependent cell death. Thus, Bcl-xL, the well-characterized apoptosis guards, appears to be important in cell death. |
| Product Categories/Family for anti-BCL2L1 antibody   | Death Receptor Signaling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| References                                           | Vander Heiden MG, et al. (1997) Bcl-xL Regulates the Membrane Potential and Volume Homeostasis of Mitochondria. Cell. 91 (5): 627-37.Muchmore SW, et al. (1996) X-ray and NMR structure of human Bcl-xL, an inhibitor of programmed cell death. Nature. 381: 335-341.SharoffEH, et al. (2007) Bcl-2 family members regulate anoxia-induced cell death. Antioxid Redox Signal. 9 (9) :1405-9.Zhou F, et al. (2011) Bcl-2 and Bcl-xL play important roles in the crosstalk between autophagy and apoptosis. FEBS J. 278 (3): 403-13.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

NCBI AND UNIPROT INFORMATION

|                                  |                                               |
|----------------------------------|-----------------------------------------------|
| NCBI GI #                        | 577019442                                     |
| NCBI GeneID                      | 12048                                         |
| NCBI Accession #                 | NP_001276645.1                                |
| NCBI GenBank Nucleotide #        | NM_001289716.1                                |
| UniProt Accession #              | Q64373; O35844; Q60657; Q60658; Q61338        |
| Molecular Weight                 | 23,900 Da                                     |
| NCBI Official Full Name          | bcl-2-like protein 1 isoform a                |
| NCBI Official Synonym Full Names | BCL2-like 1                                   |
| NCBI Official Symbol             | Bcl2l1                                        |
| NCBI Official Synonym Symbols    | BclX; Bcl2l; bcl-x; Bcl-XL; Bcl(X)L; bcl2-L-1 |
| NCBI Protein Information         | bcl-2-like protein 1                          |
| UniProt Protein Name             | Bcl-2-like protein 1                          |
| UniProt Gene Name                | Bcl2l1                                        |
| UniProt Synonym Gene Names       | Bcl2l; Bclx; Bcl2-L-1                         |
| UniProt Entry Name               | B2CL1_MOUSE                                   |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.