

Rabbit BCL-XL Polyclonal Antibody | anti-BCL-XL antibody

Phospho-BCL-XL (Ser62) Antibody

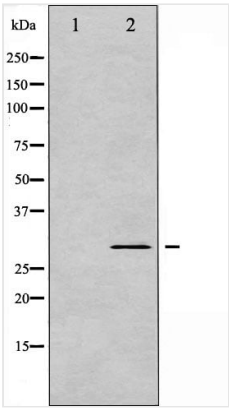
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321707	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

BCL-XL; Polyclonal Antibody; Phospho-BCL-XL (Ser62) Antibody; Apoptosis regulator Bcl X; Apoptosis regulator Bcl-X; Apoptosis regulator BclX; B cell lymphoma 2 like; B2CL1_HUMAN; Bcl 2 like 1 protein; Bcl X; Bcl xL; BCL XL/S; Bcl xS; Bcl-2-like protein 1; Bcl2 Like 1; Bcl2 related gene; Bcl2-L-1; BCL2L; Bcl2l1; BCLX; BclXL; BclXs; DKFZp781P2092; PPP1R52; Protein phosphatase 1 regulatory subunit 52; anti-BCL-XL antibody

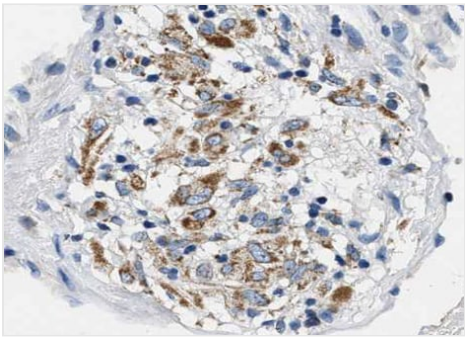
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-BCL-XL (Ser62) antibody detects endogenous levels of BCL-XL only when phosphorylated at Serine 62
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	170
Applicable Applications for anti-BCL-XL antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human BCL-XL around the phosphorylation site of Serine 62
Subcellular Location	Mitochondrion Membrane. Nucleus Membrane. Mitochondrial Membranes and Perinuclear Envelope.
Tissue Specificity	Bcl-X(S) is expressed at high levels in cells that undergo a high rate of turnover, such as developing lymphocytes. In contrast, Bcl-X(L) is found in tissues containing long-lived postmitotic cells, such as adult brain.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (100%), Bovine (100%), Horse (82%), Sheep (100%), Rabbit (82%), Dog (100%)
Conjugation	Unconjugated
Epitope	Phospho Ser62
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



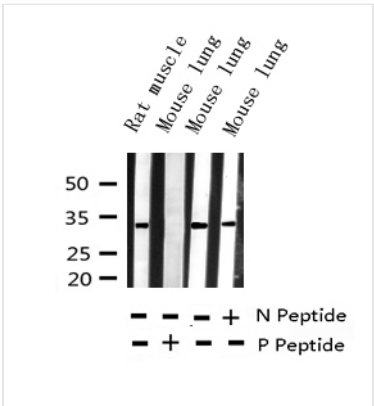
WB (Western Blot)

Western blot analysis of BCL-XL phosphorylation expression in UV treated 293 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



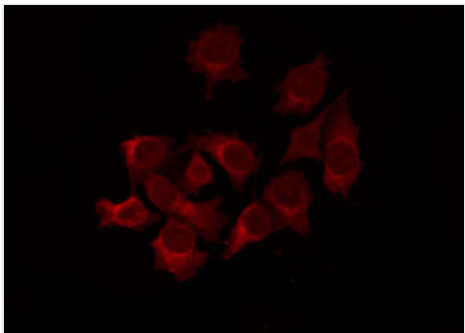
IHC (Immunohistochemisry)

AAA321707 at 1/100 staining human lung carcinoma tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of Phospho-BCL-XL (Ser62) expression in various lysates



IF (Immunofluorescence)

AAA321707 staining 293 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-BCL-XL antibody	Description: The protein encoded by this gene belongs to the BCL-2 protein family. BCL-2 family members form hetero- or homodimers and act as anti- or pro-apoptotic regulators that are involved in a wide variety of cellular activities. Function: Potent inhibitor of cell death. Inhibits activation of caspases. Appears to regulate cell death by blocking the voltage-dependent anion channel (VDAC) by binding to it and preventing the release of the caspase activator, CYC1, from the mitochondrial membrane. Also acts as a regulator of G2 checkpoint and progression to cytokinesis during mitosis. Subunit Structure: Homodimer. Isoform Bcl-X(L) forms heterodimers with BAX, BAK or BCL2. Heterodimerization with BAX does not seem to be required for anti-apoptotic activity. Interacts with BCL2L11. Interacts with BAD. Interacts (isoform Bcl-X(L)) with SIVA1 (isoform 1); the interaction inhibits the anti-apoptotic activity. Interacts with BECN1 and PGAM5. Isoform Bcl-X(L) interacts with IKZF3. Interacts with HEBP2. Isoform Bcl-X(L) interacts with RTL10/BOP. Interacts with p53/TP53 and BBC3; interaction with BBC3 disrupts the interaction with p53/TP53. Isoform Bcl-X(L) interacts with DNM1L and CLTA; DNM1L and BCL2L1 isoform BCL-X(L) may form a complex in synaptic vesicles that also contains clathrin and MFF. Interacts with ATP5F1A and ATP5F1B; the interactions mediate the association of isoform Bcl-X(L) with the mitochondrial membrane ATP synthase F1F0 ATP synthase. Interacts with VDAC1 (PubMed:25296756). Isoform Bcl-X(L) interacts (via the loop between motifs BH4 and BH3) with NLRP1 (via LRR repeats), but not with NLRP2, NLRP3, NLRP4, PYCARD, nor MEFV (PubMed:17418785). Interacts with BCL2L11 (via BH3) (PubMed:27013495). Post-translational Modifications: Proteolytically cleaved by caspases during apoptosis. The cleaved protein, lacking the BH4 motif, has pro-apoptotic activity. Phosphorylated on Ser-62 by CDK1. This phosphorylation is partial in normal mitotic cells, but complete in G2-arrested cells upon DNA-damage, thus promoting subsequent apoptosis probably by triggering caspases-mediated proteolysis. Phosphorylated by PLK3, leading to regulate the G2 checkpoint and progression to cytokinesis during mitosis. Phosphorylation at Ser-49 appears during the S phase and G2, disappears rapidly in early mitosis during prometaphase, metaphase and early anaphase, and re-appears during telophase and cytokinesis. Similarity: The BH4 motif is required for anti-apoptotic activity. The BH1 and BH2 motifs are required for both heterodimerization with other Bcl-2 family members and for repression of cell death. The loop between motifs BH4 and BH3 is required for the interaction with NLRP1. Belongs to the Bcl-2 family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4502381
NCBI GeneID	598
NCBI Accession #	NP_001182.1
NCBI GenBank Nucleotide #	NM_001191.3
UniProt Accession #	Q07817; Q5CZ89; Q5TE65; Q92976; E1P5L6
Molecular Weight	Observed: 30 kDa Predicted: 27 kDa
NCBI Official Full Name	bcl-2-like protein 1 isoform Bcl-X(S)
NCBI Official Synonym Full Names	BCL2 like 1
NCBI Official Symbol	BCL2L1
NCBI Official Synonym Symbols	BCLX; BCL2L; Bcl-X; PPP1R52; BCL-XL/S
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

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.

