BCL-xL Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Bcl-xL, Polyclonal Antibody
Full Product Name	Bcl-xL Rabbit pAb
Product Gene Name	anti-Bcl-xL antibody
Product Synonym Names	BCLX; BCL2L; Bcl-X; PPP1R52; BCL-XL/S
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Supplied in 50nM Tris-Glycine (pH 7.4), 0.15M Nacl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Purity/Purification	Affinity purified
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Molecular Weight	26,049 Da
Chromosome Location	Chromosome: 20; NC_000020.10 (30252261..30310656, complement). Location: 20q11.21
OMIM	600039
3D Structure	ModBase 3D Structure for Q07817
Immunogen	A synthetic peptide of human Bcl-XL
Product Categories/Family for anti-Bcl-xL antibody	Primary antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-Bcl-xL antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunofluorescence (IF), Flow Cytometry (FC/FACS), Immunoprecipitation (IP)
Application Notes for anti-Bcl-xL antibody	WB: 1:1000 IHC: 1:200 ICC/IF: 1:100 FC: 1:20 IP: 1:30
Related Product Information for anti-Bcl-xL antibody	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.Isoform Bcl-X (L) also regulates presynaptic plasticity, including neurotransmitter release and recovery, number of axonal mitochondria as well as size and number of synaptic vesicle clusters. During synaptic stimulation, increases ATP availability from mitochondria through regulation of mitochondrial membrane ATP synthase F1F0 activity and regulates endocytic vesicle retrieval in hippocampal neurons through association with DMN1L and stimulation of its GTPase activity in synaptic vesicles. May attenuate inflammation impairing NLRP1-inflammasome activation, hence CASP1 activation and IL1B release (PubMed: 17418785).
Other Notes	Small volumes of anti-Bcl-xL antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for Bcl-xL purchase	MBS8575690 is an antibody targeting Bcl-xL. Also known as Bcl-xL Rabbit pAb. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Bcl-xL. It may not necessarily be applicable to this product.

NCBI GI #	4502381
NCBI GeneID	598
NCBI Accession #	NP_001182.1
UniProt Primary Accession #	Q07817
UniProt Secondary Accession #	Q5CZ89; Q5TE65; Q92976; E1P5L6
UniProt Related Accession #	Q07817
GenBank Nucleotide #	NM_001191.2
NCBI Official Full Name	bcl-2-like protein 1 isoform 2
NCBI Official Synonym Full Names	BCL2-like 1
NCBI Official Symbol	BCL2L1
NCBI Official Synonym Symbols	BCLX; BCL2L; BCLXL; BCLXS; Bcl-X; bcl-xL; bcl-xS; PPP1R52; BCL-XL/S
UniProt Protein Name	Bcl-2-like protein 1
UniProt Synonym Protein Names	Apoptosis regulator Bcl-X
Protein Family	Bcl2-associated agonist of cell death
UniProt Gene Name	BCL2L1
UniProt Synonym Gene Names	BCL2L; BCLX; Bcl2-L-1
UniProt Entry Name	B2CL1_HUMAN
NCBI Protein Information	bcl-2-like protein 1; apoptosis regulator Bcl-X; protein phosphatase 1, regulatory subunit 52
NCBI Summary for Bcl-xL	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. The proteins encoded by this gene are located at the outer mitochondrial membrane, and have been shown to regulate outer mitochondrial membrane channel (VDAC) opening. VDAC regulates mitochondrial membrane potential, and thus controls the production of reactive oxygen species and release of cytochrome C by mitochondria, both of which are the potent inducers of cell apoptosis. Two alternatively spliced transcript variants, which encode distinct isoforms, have been reported. The longer isoform acts as an apoptotic inhibitor and the shorter form acts as an apoptotic activator. [provided by RefSeq, Jul 2008]

UniProt Comments for Bcl-xL	Bcl-xL: an antiapoptotic member of the Bcl-2 family. Located at the outer mitochondrial membrane and regulates outer mitochondrial membrane channel (VDAC) opening. VDAC regulates mitochondrial membrane potential, and thus controls the production of reactive oxygen species and release of cytochrome C by mitochondria, both of which are potent inducers of cell apoptosis. Two alternatively spliced isoforms have been reported. Protein type: Mitochondrial; Apoptosis; Membrane protein, integral; Autophagy Chromosomal Location of Human Ortholog: 20q11.21 Cellular Component: centrosome; nuclear membrane; mitochondrion; synaptic vesicle membrane; integral to membrane; cytosol; mitochondrial outer membrane; mitochondrial matrix; mitochondrial inner membrane; cytoplasm; nucleolus; cell junction; nucleus Molecular Function: identical protein binding; protein binding; protein homodimerization activity; protein heterodimerization activity; BH3 domain binding; protein kinase binding Biological Process: negative regulation of autophagy; apoptosis; cytokinesis; cellular process regulating host cell cycle in response to virus; germ cell development; apoptotic mitochondrial changes; regulation of mitochondrial membrane potential; ovarian follicle development; positive regulation of cell proliferation; negative regulation of neuron apoptosis; release of cytochrome c from mitochondria; in utero embryonic development; mitotic cell cycle checkpoint; male gonad development; suppression by virus of host apoptosis; endocytosis; cell proliferation; neuron apoptosis; fertilization; DNA damage response, signal transduction resulting in induction of apoptosis; response to cytokine stimulus; innate immune response; response to cycloheximide; spermatogenesis; regulation of mitochondrial membrane permeability; growth; negative regulation of apoptosis
Research Articles on Bcl-xL	**1.** Here, we report the docking studies that resulted in the identification of new inhibitors distinct from the previously reported inhibitor against Bcl-xL protein.
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