



Anti-BCL2L1 monoclonal antibody, clone 3I13 (DMAB5401MH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Mouse anti-human bcl-X monoclonal antibody.
Antigen Description	Bcl-2-like protein 1 is a protein that in humans is encoded by the BCL2L1 gene. 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.
Specificity	This antibody recognizes a 27 kD protein identified as bcl-XL protein. It is highly specific to bcl-X and does not show cross reactivity with bcl-2 alpha or bax protein. This antibody cross reacts with human, mouse, rat, and pig.
Immunogen	BALB/C mice were injected with a synthetic peptide of amino acid 3-14 (Cys-QSNRELVVDFLS) of human bcl-X protein.
Isotype	IgG2a
Source/Host	Mouse
Species Reactivity	Human
Clone	3I13
Conjugate	Unconjugated

Applications	IHC
Cellular Localization	Cytoplasmic and cell membrane
Format	This antibody is supplied as purified immunoglobulin fraction containing sodium azide as a preservative.
Preservative	See individual product datasheet
Storage	Store at 2-8°C. Do not use beyond the expiration date stated on the label.

GENE INFORMATION

Gene Name	BCL2L1 BCL2-like 1 [Homo sapiens]
Synonyms	BCL2L1; BCL2-like 1; BCLX; BCL2L; BCLXL; BCLXS; Bcl-X; bcl-xL; bcl-xS; PPP1R52; BCL-XL/S; Bcl2-L-1; bcl-2-like protein 1; apoptosis regulator Bcl-X; protein phosphatase 1, regulatory subunit 52; BCLX1; DKFZp781P2092; OTTHUMP00000030551; OTTHUMP00000030553; Apoptosis regulator Bcl-X
Entrez Gene ID	598
Protein Refseq	NP_001182
UniProt ID	Q07817
Chromosome Location	20q11.21
Pathway	Amyotrophic lateral sclerosis (ALS); Apoptosis; BH3-only proteins associate with and inactivate; anti-apoptotic BCL-2 members; Chronic myeloid leukemia; EPO signaling pathway; HTLV-I infection; IL-3 Signaling Pathway; IL-4 signaling Pathway; IL2 signaling
Function	BH3 domain binding; identical protein binding; protein binding; protein heterodimerization activity; protein kinase binding