

Datasheet for ABIN4886480

anti-BCL2L1 antibody (Middle Region)



[Go to Product page](#)

1 Image

2 Publications

Overview

Quantity:	100 µg
Target:	BCL2L1
Binding Specificity:	AA 75-105, Middle Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BCL2L1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Flow Cytometry (FACS), Immunocytochemistry (ICC)

Product Details

Purpose:	Anti-Bcl-X/BCL2L1 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human Bcl-X, identical to the related mouse and rat sequences.
Sequence:	LDAREVIPMA AVKQALREAG DEFELRYRRA F
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-Bcl-X/BCL2L1 Antibody Picoband® (ABIN4886480). Tested in Flow Cytometry, IHC, ICC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are

Product Details

designated as Picoband, ensuring unmatched performance.

Purification: Immunogen affinity purified.

Target Details

Target: BCL2L1

Alternative Name: BCL2L1 ([BCL2L1 Products](#))

Background: Synonyms: Bcl-2-like protein 1, Bcl2-L-1, Apoptosis regulator Bcl-X, BCL2L1, BCL2L, BCLX, 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.

Background: Bcl-2-like protein 1, also known as Bcl-X, 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. Alternative splicing results in multiple transcript variants encoding two different isoforms. The longer isoform (Bcl-xL) acts as an apoptotic inhibitor and the shorter form (Bcl-xS) acts as an apoptotic activator.

Molecular Weight: 29 kDa, 60 kDa

Gene ID: 598

UniProt: [Q07817](#)

Pathways: [Apoptosis](#), [Negative Regulation of intrinsic apoptotic Signaling](#)

Application Details

Application Notes: Western blot, 0.1-0.5 µg/mL, Human

Immunohistochemistry (Frozen Section), 0.5-1 µg/mL, Human

Immunocytochemistry, 0.5-1 µg/mL, Human

Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells, Human

1. "Entrez Gene: BCL2L1 BCL2-like 1". 2. Boise LH, González-García M, Postema CE, Ding L, Lindsten T, Turka LA, Mao X, Nuñez G, Thompson CB (Aug 1993). "bcl-x, a bcl-2-related gene that functions as a dominant regulator of

Application Details

apoptotic cell death". Cell 74(4): 597-608.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

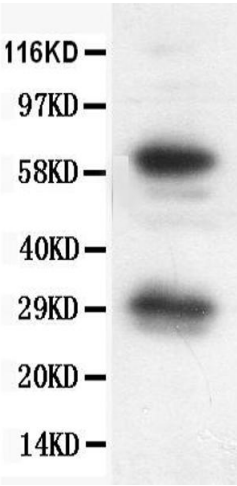
Storage: 4 °C, -20 °C

Storage Comment: Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Publications

Product cited in: Cui, Li, Xu, Zhang, Sun, Chen: "Emodin alleviates severe acute pancreatitis-associated acute lung injury by decreasing pre-B-cell colony-enhancing factor expression and promoting polymorphonuclear neutrophil apoptosis." in: **Molecular medicine reports**, Vol. 16, Issue 4, pp. 5121-5128, (2018) ([PubMed](#)).

Zhou, Zhang, Li, Hao, Liu, Wang: "Azithromycin synergistically enhances anti-proliferative activity of vincristine in cervical and gastric cancer cells." in: **Cancers**, Vol. 4, Issue 4, pp. 1318-32, (2013) ([PubMed](#)).



Western Blotting

Image 1. Western blot analysis of Bcl-X using anti- Bcl-X antibody . Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each Lane was loaded with 50ug of sample under reducing conditions. Lane 1: SW620 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti- Bcl-X antigen affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Bcl-X at approximately 29 KD, 60KD. The expected band size for Bcl-X is at 26KD.