Bcl-XL Protein, Mouse (His)

Cat. No.:	HY-P72846
Synonyms:	Bcl-2-like protein 1; Bcl2-L-1; Apoptosis regulator Bcl-X; Bclx
Species:	Mouse
Source:	E. coli
Accession:	Q64373-1 (M1-R212)
Gene ID:	12048
Molecular Weight:	Approximately 33 kDa

PROPERTIES

AA Sequence	M S Q S N R E L V V D F L S Y K L S Q K G Y S W S Q F S D V E E N R T E A P E E T E A E R E T P S A I N G N P S W H L A D S P A V N G A T G H S S S L D A R E V I P M A A V K Q A L R E A G D E F E L R Y R R A F S D L T S Q L H I T P G T A Y Q S F E Q V V N E L F R D G V N W G R I V A F F S F G G A L C V E S V D K E M Q V L V S R I A S W M A T Y L N D H L E P W I Q E N G G W D T F V D L Y G N N A A A E S R K G Q E R F N R
Biological Activity	1. Immobilized human BID at 10 μg/mL (100 μl/well) can bind biotinylated mouse BCL2L1, The EC_{50} of biotinylated mouse BCL2L1 is 5.6 ng/mL. 2. Immobilized mouse BID at 10 μg/mL (100 μl/well) can bind biotinylated mouse BCL2L1, The EC_{50} of biotinylated mouse BCL2L1 is 7.1 ng/mL.
Appearance	Solution
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH 7.5.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	Bcl-XL protein forms heterodimers with BAX, BAK, or BCL2, with heterodimerization with BAX not being essential for its anti-apoptotic activity. Additionally, it interacts with isoform 1 of SIVA1, inhibiting its anti-apoptotic function. The protein also

engages with IKZF3 and RTL10/BOP. Furthermore, interactions with DNM1L and CLTA suggest the potential formation of a complex in synaptic vesicles that includes clathrin and MFF. Notably, Bcl-XL interacts with NLRP1, specifically via the loop between motifs BH4 and BH3, but does not engage with NLRP2, NLRP3, NLRP4, PYCARD, or MEFV. It also interacts with BECN1, indicating its involvement in autophagy regulation.

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