

Recombinant Human B-Cell CLL/Lymphoma 2, GST-tagged

Cat. No. BCL2-322H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human BCL2 was expressed in E. coli cells using an N-terminal GST tag.
Species	Human
Source	E.coli
Description	BCL2 gene encodes an integral inner mitochondrial membrane protein that acts as an antiapoptotic protein. The protein BAD can antagonize both the cell cycle and antiapoptotic functions of BCL2 through binding to the BH3 domain. Constitutive expression of BCL2, such as in the case of translocation of BCL2 to Ig heavy chain locus, is thought to be the cause of follicular lymphoma. BCL2 is phosphorylated on specific serine/threonine residues within the unstructured loop in response to diverse stimuli and such phosphorylation has been associated with the loss of the biological function of BCL2.
Applications	Western Blot
Molecular Weight	51 kDa
Expression System	E.coli
Form	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.

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Purity	> 70 %
Concentration	0.2 ug/ul
Sequences	Full-length
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	ATF-2 transcription factor network; Activation of BH3-only proteins; Amyotrophic lateral sclerosis (ALS); Apoptosis; B Cell Receptor Signaling Pathway; Cholinergic synapse; Colorectal cancer; Focal adhesion; Estrogen signaling pathway; Estrogen signaling pathway; Immune System; Neurotrophin signaling pathway; Pathways in cancer; Prostate cancer; Small cell lung cancer; Protein processing in endoplasmic reticulum

GENE INFORMATION

Gene Name	BCL2 B-cell CLL/lymphoma 2 [Homo sapiens]
Official Symbol	BAL2
Synonyms	BCL2; B-cell CLL/lymphoma 2; Bcl-2; apoptosis regulator Bcl-2; Apoptosis regulator Bcl-2
Gene ID	596
mRNA Refseq	NM_000633
Protein Refseq	NP_000624

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MIM	151430
UniProt ID	P10415
Chromosome Location	18q21.3
Function	BH3 domain binding; channel activity ; identical protein binding; Protease binding; protein binding; Protein Heterodimerization activity; Protein homodimerization activity; Transcription activator activity; Transcription factor binding; sequence-specific DNA binding; ubiquitin protein ligase binding
BCL-2 human.	