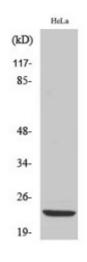


## **Anti-Bim antibody**



Description

Bim is a protein encoded by the BCL2L11 gene which is approximately 22,1 kDa. Bim is localised to the mitochondrion. It is involved in the activation of BH3-only proteins, apoptosis modulation and signalling, p75 NTR receptor-mediated signalling and MAPK signalling. It forms a hetero- or homodimers and acts as anti- or pro-apoptotic regulator that is involved in a wide variety of cellular activities. Bim isoform gamma is most abundantly expressed in small intestine and colon. Other isoforms are widely expressed with tissue-specific variation. Mutations in the BCL2L11 gene may result in ocular hyperemia and autoimmune lymphoproliferative syndrome. STJ91855 was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. This polyclonal antibody detects endogenous levels of Bim.

Model STJ91855

**Host** Rabbit

**Reactivity** Human, Mouse, Rat, Simian

**Applications** ELISA, IHC, WB

Immunogen Synthesized peptide derived from human Bim

Immunogen Region 1-80 aa, N-terminal

**Gene ID** 10018

Gene Symbol BCL2L11

**Dilution range** WB 1:500-1:2000IHC 1:100-1:300ELISA 1:20000

**Specificity** Bim Polyclonal Antibody detects endogenous levels of Bim protein.

**Tissue Specificity** Isoform BimEL, isoform BimL and isoform BimS are the predominant

isoforms and are widely expressed with tissue-specific variation. Isoform Bim-gamma is most abundantly expressed in small intestine and colon, and in

lower levels in spleen, prostate, testis, heart, liver and kidney.

**Purification** The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

**Note** For Research Use Only (RUO).

**Protein Name** Bcl-2-like protein 11 Bcl2-L-11 Bcl2-interacting mediator of cell death

**Molecular Weight** 25/22 kDa

**Clonality** Polyclonal

**Conjugation** Unconjugated

**Isotype** IgG

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

**Concentration** 1 mg/ml

**Storage Instruction** Store at -20°C, and avoid repeat freeze-thaw cycles.

Database Links HGNC:994OMIM:603827

Alternative Names Bcl-2-like protein 11 Bcl2-L-11 Bcl2-interacting mediator of cell death

**Function** Induces apoptosis and anoikis. Isoform BimL is more potent than isoform

BimEL. Isoform Bim-alpha1, isoform Bim-alpha2 and isoform Bim-alpha3 induce apoptosis, although less potent than isoform BimEL, isoform BimL and isoform BimS. Isoform Bim-gamma induces apoptosis. Isoform Bim-alpha3 induces apoptosis possibly through a caspase-mediated pathway. Isoform BimAC and isoform BimABC lack the ability to induce apoptosis.

**Sequence and Domain Family** The BH3 motif is required for interaction with Bcl-2 proteins and cytotoxicity.

**Cellular Localization** Endomembrane system. Associated with intracytoplasmic membranes.

Isoform BimEL: Mitochondrion. Translocates from microtubules to motochondria on loss of cell adherence.. Isoform BimL: Mitochondrion.. Isoform BimS: Mitochondrion.. Isoform Bim-alpha1: Mitochondrion.

Post-translational Modifications Phosphorylation at Ser-69 by MAPK1/MAPK3 leads to interaction with TRIM2 and polyubiquitination, followed by proteasomal degradation .

Deubiquitination catalyzed by USP27X stabilizes the protein . Ubiquitination

by TRIM2 following phosphorylation by MAPK1/MAPK3 leads to

proteasomal degradation. Conversely, deubiquitination catalyzed by USP27X

stabilizes the protein.