

Product datasheet for TA354422

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

BCL2 Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: WB

Recommended Dilution: WB 0.1-1 μg/ml ELISA 0.01-0.1 μg/ml IP 2-5 μg/ml IHC 2-10 μg/ml FC 5-10 μg/ml

Reactivity: Human, Mouse, Rat

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

Immunogen: A synthetic peptide derived from epitope –FATVV- with the phosphorylation site Thr129 of

human BCL-2 protein. This sequence is identical in human, rat, mouse, bovine and dog.

Formulation: This affinity purified antibody is supplied in sterile Tris-buffered saline (pH7.2) containing

antibody stabilizer.

Purification: The Rabbit IgG is purified by site-modified Epitope Affinity Purification.

Conjugation: Unconjugated

Storage: Store at -20°C as received.

Stability: Stable for 12 months from date of receipt.

Predicted Protein Size: 26 kDa

Gene Name: B-cell CLL/lymphoma 2

Database Link: NP 000624

Entrez Gene 12043 MouseEntrez Gene 24224 RatEntrez Gene 596 Human

P10415





Background:

The Bcl-2 gene codes for a 25 kDa protein which has been implicated in the control of cell death by apoptosis, in normal tissues, expression of bcl-2 is restricted to cells and tissues that are characterized by apoptotic cell turnover. Bcl-2 protein exerts a survival function in response to a wide range of apoptotic stimuli through inhibition of mitochondrial cytochrome c release, thus it is also considered as an inner mitochondrial membrane protein which can be expressed in lymphoma and breast carcinoma cells. This protein modulates mitochondrial calcium homeostasis and proton flux. Several phosphorylation sites have been identified within Bcl-2 including Thr56, Ser70, Thr74, Ser87 and Thr127 which may be the targets of the ASK1/MKK7/JNK1 pathway, and that phosphorylation of Bcl-2 may be a marker for mitotic events. Mutation of Bcl-2 at Thr56 or Ser87 inhibits its anti-apoptotic activity during glucocorticoid-induced apoptosis of T lymphocytes. Phosphorylation of Bcl-2 at Ser70 by IL-3/JNK may be required for its enhanced antiapoptotic functions.

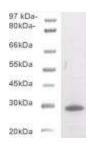
Synonyms: Bcl-2; PPP1R50

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Stem cell - Pluripotency, Transmembrane

Protein Pathways: Amyotrophic lateral sclerosis (ALS), Apoptosis, Colorectal cancer, Focal adhesion,

Neurotrophin signaling pathway, Pathways in cancer, Prostate cancer, Small cell lung cancer

Product images:



WB: The whole cell lysate derived from UV treated Raji cell was separated in 10% SDS-PAGE, transferred onto NC membrane, and immunoblotted by Rabbit anti–Bcl-2 (pT129) antibody at 1:500. An immunoreactive band around ~26 kDa is observed.