



## Rabbit anti BCL-2(pT56) Polyclonal Antibody

Alternative Name(s): B-cell lymphoma protein 2,CL2, BCL-2.

### Order Information

- **Description:** BCL-2(pT56)
- **Catalogue:** 500-11584
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Rabbit
- **Clone:** nan
- **Application:** IHC(P), WB
- **Reactivity:** Hu, Ms

### **ANTIGEN PREPARATION**

A synthetic peptide derived from epitope –GHTPH- with the phosphorylation site Thr56 of human BCL-2 protein.

### **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.

### **PURIFICATION**

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

### **FORMULATION**

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

### **SPECIFICITY**

This antibody recognizes BCL-2 with the phosphorylation site Thr56 in human and mice. It does not cross-react with non-phosphospecific peptide.

### **STORAGE**

The antibodies are stable for 24 months from date of receipt when stored at –20oC to –70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

### **APPLICATIONS/SUGGESTED WORKING DILUTIONS\***

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-5 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 26 kDa
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

### **FOR RESEARCH USE ONLY.**

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\*Optimal dilutions should be determined by researchers for the specific applications.

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**DATA ATTACHMENTS**



Western Blot: 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((pT56) (Cat#500-11584) antibody at 1:500 . An immunoreactive band around ~26 kDa is observed.

**REFERENCES**

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