

Bcl-2 (Phospho Thr56) Rabbit pAb

CatalogNo: YP0032 **Orthogonal Validated** 

Comparable Abs 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IP, IF, ELISA

MW

- 26kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

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

Recommended Dilution Ratios

WB 1:500-1:2000

IHC 1:100-1:300

IP 2-5 ug/mg lysate

IF 1:200-1:1000

ELISA 1:20000

Not yet tested in other applications.

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human BCL-2 around the phosphorylation site of Thr56. AA range:26-75

Specificity

Phospho-Bcl-2 (T56) Polyclonal Antibody detects endogenous levels of Bcl-2 protein only when phosphorylated at T56. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):GHtPH

Target Information

Gene name BCL2

Protein Name Apoptosis regulator Bcl-2

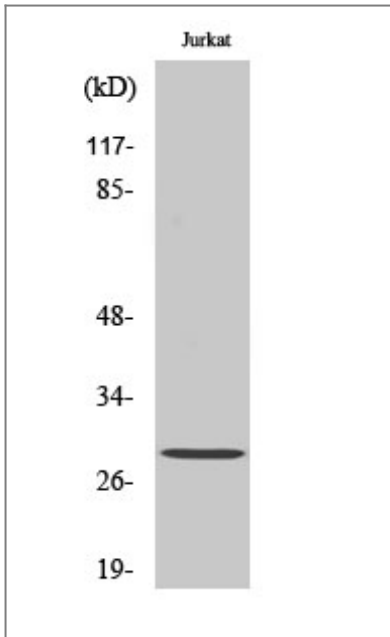
Organism	Gene ID	UniProt ID
Human	596;	P10415;
Mouse		P10417;

Cellular Localization Mitochondrion outer membrane ; Single-pass membrane protein . Nucleus membrane ; Single-pass membrane protein . Endoplasmic reticulum membrane ; Single-pass membrane protein . Cytoplasm .

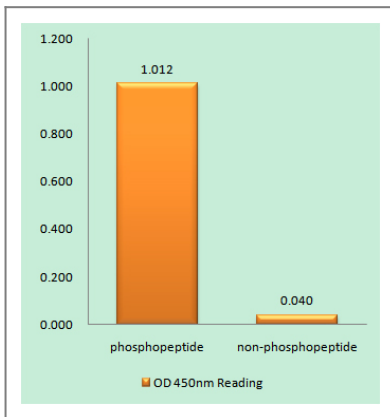
Tissue specificity Expressed in a variety of tissues.

Function Disease:A chromosomal aberration involving BCL2 may be a cause of follicular lymphoma (FL) [MIM:151430]; also known as type II chronic lymphatic leukemia. Translocation t(14;18)(q32;q21) with immunoglobulin gene regions. BCL2 mutations found in non-Hodgkin lymphomas carrying the chromosomal translocation could be attributed to the Ig somatic hypermutation mechanism resulting in nucleotide transitions. ,Domain:The BH4 motif is required for anti-apoptotic activity and for interaction with RAF-1. ,Function:Suppresses apoptosis in a variety of cell systems including factor-dependent lymphohematopoietic and neural cells. Regulates cell death by controlling the mitochondrial membrane permeability. Appears to function in a feedback loop system with caspases. Inhibits caspase activity either by preventing the release of cytochrome c from the mitochondria and/or by binding to the apoptosis-activating factor (APAF-1) . ,online information:Bcl-2 entry ,PTM:Phosphorylation/dephosphorylation on Ser-70 regulates anti-apoptotic activity. Growth factor-stimulated phosphorylation on Ser-70 by PKC is required for the anti-apoptosis activity and occurs during the G2/M phase of the cell cycle. In the absence of growth factors , BCL2 appears to be phosphorylated by other protein kinases such as ERKs and stress-activated kinases. Dephosphorylated by protein phosphatase 2A (PP2A) . ,PTM:Proteolytically cleaved by caspases during apoptosis. The cleaved protein , lacking the BH4 motif , has pro-apoptotic activity , causes the release of cytochrome c into the cytosol promoting further caspase activity. ,similarity:Belongs to the Bcl-2 family. ,subunit:Forms homodimers , and heterodimers with BAX , BAD , BAK and Bcl-X (L) . Heterodimerization with BAX requires intact BH1 and BH2 motifs , and is necessary for anti-apoptotic activity (By similarity) . Also interacts with APAF1 , RAF-1 , TP53BP2 , BBC3 , BCL2L1 , MRPL41 and BNIPL. Binding to FKBP8 seems to target BCL2 to the mitochondria and probably interferes with the binding of BCL2 to its targets. ,tissue specificity:Expressed in a variety of tissues. ,

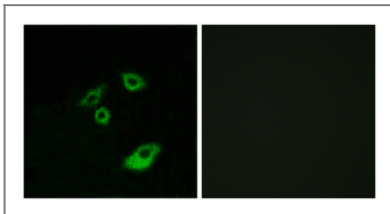
Validation Data



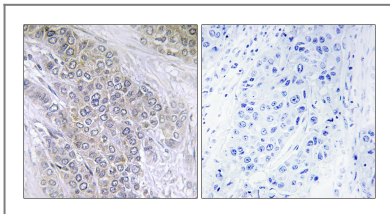
Western Blot analysis of various cells using Phospho-Bcl-2 (T56) Polyclonal Antibody diluted at 1:500



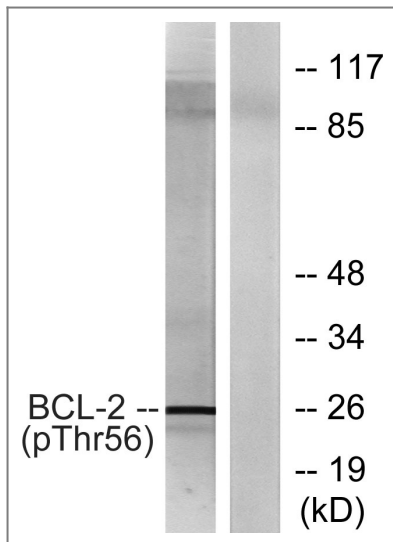
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using BCL-2 (Phospho-Thr56) Antibody



Immunofluorescence analysis of A549 cells, using BCL-2 (Phospho-Thr56) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using BCL-2 (Phospho-Thr56) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from K562 cells treated with H₂O₂ 100uM 30', using BCL-2 (Phospho-Thr56) Antibody. The lane on the right is blocked with the phospho peptide.

Contact information

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Bcl-2 (Phospho Thr56) Rabbit pAb

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