Bcl-2 (Phospho Ser87) Rabbit pAb

CatalogNo: YP0646 Orthogonal Validated

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,IHC,IF,ELISA

MW
- 28kD (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
ELISA 1:5000
IF 1:50-200

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human BCL-2 around the phosphorylation site of Ser87. AA range:61-110

Specificity	Phospho-Bcl-2 (S87) Polyclonal Antibody detects endogenous levels of Bcl-2 protein only when phosphorylated at S87.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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):ALsPV

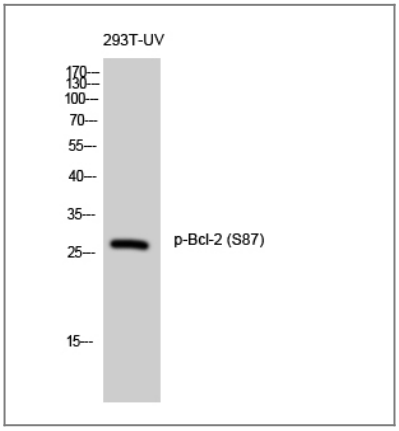
Target Information

Gene name	BCL2
Protein Name	Apoptosis regulator Bcl-2

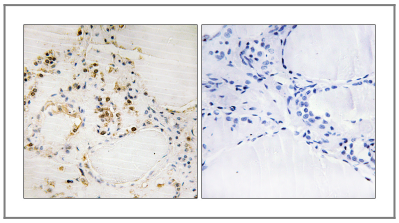
Organism	Gene ID	UniProt ID
Human	596;	P10415;
Mouse	12043;	P10417;
Rat	24224;	P49950;

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.,

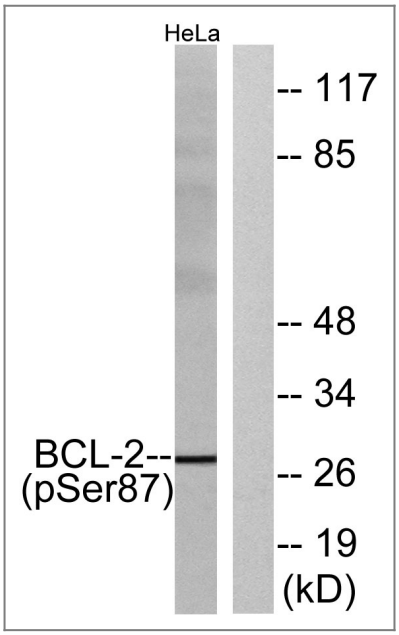
Validation Data



Western Blot analysis of 293T-UV cells using Phospho-Bcl-2 (S87) Polyclonal Antibody diluted at 1:500



Immunohistochemistry analysis of paraffin-embedded human thyroid gland, using BCL-2 (Phospho-Ser87) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HeLa cells treated with nocodazole 1ug/ml 18h, using BCL-2 (Phospho-Ser87) Antibody. The lane on the right is blocked with the phospho peptide.

Contact information

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Please scan the QR code to access additional product information:
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