Bcl-x (Phospho Thr47) Rabbit pAb

CatalogNo: YP0035 Orthogonal Validated

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,IHC,IF,ELISA

MW
- 30kD (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
IF 1:200-1:1000
ELISA 1:40000
Not yet tested in other applications.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human BCL-XL around the phosphorylation site of Thr47. AA range:13-62

Specificity Phospho-Bcl-x (T47) Polyclonal Antibody detects endogenous levels of Bcl-x protein only when phosphorylated at T47.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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):MEtPS

Target Information

Gene name BCL2L1 BCL2L BCLX

Protein Name Bcl-2-like protein 1

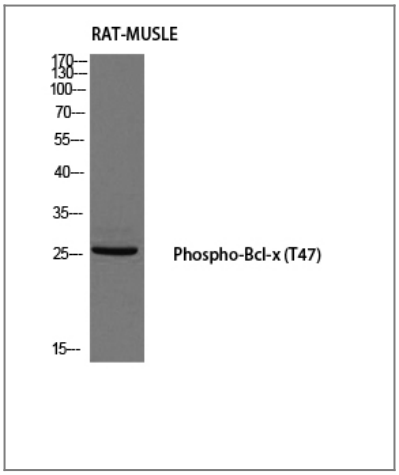
Organism	Gene ID	UniProt ID
Human	598;	Q07817;
Mouse	12048;	Q64373;
Rat	24888;	P53563;

Cellular Localization [Isoform Bcl-X (L)]: Mitochondrion inner membrane . Mitochondrion outer membrane . Mitochondrion matrix . Cytoplasmic vesicle , secretory vesicle , synaptic vesicle membrane . Cytoplasm , cytosol . Cytoplasm , cytoskeleton , microtubule organizing center , centrosome. Nucleus membrane ; Single-pass membrane protein ; Cytoplasmic side . After neuronal stimulation , translocates from cytosol to synaptic vesicle and mitochondrion membrane in a calmodulin-dependent manner (By similarity) . Localizes to the centrosome when phosphorylated at Ser-49. .

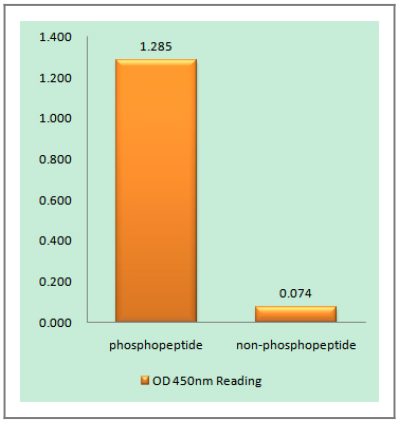
Tissue specificity Bcl-X (S) is expressed at high levels in cells that undergo a high rate of turnover , such as developing lymphocytes. In contrast , Bcl-X (L) is found in tissues containing long-lived postmitotic cells , such as adult brain.

Function Domain:The BH4 motif is required for anti-apoptotic activity. The BH1 and BH2 motifs are required for both heterodimerization with other Bcl-2 family members and for repression of cell death. ,Function:Potent inhibitor of cell death. Isoform Bcl-X (L) anti-apoptotic activity is inhibited by association with SIVA isoform 1. Inhibits activation of caspases (By similarity) . Appears to regulate cell death by blocking the voltage-dependent anion channnel (VDAC) by binding to it and preventing the release of the caspase activator , cytochrome c , from the mitochondrial membrane. The Bcl-X (S) isoform promotes apoptosis. ,PTM:Proteolytically cleaved by caspases during apoptosis. The cleaved protein , lacking the BH4 motif , has pro-apoptotic activity. ,similarity:Belongs to the Bcl-2 family. ,subcellular location:Mitochondrial membranes and perinuclear envelope. ,subunit:Bcl-X (L) forms homodimers , and heterodimers with BAX , BAK and BCL2. Heterodimerization with BAX does not seem to be required for anti-apoptotic activity. Also interacts with BAD and BBC3. Isoform Bcl-X (L) binds to Siva isoform 1. Interacts with BCL2L11 (By similarity) . Interacts with BECN1 and PGAM5. Isoform Bcl-X (L) interacts with BAX isoform Sigma. ,tissue specificity:Bcl-X (S) is expressed at high levels in cells that undergo a high rate of turnover , such as developing lymphocytes. In contrast , Bcl-X (L) is found in tissues containing long-lived postmitotic cells , such as adult brain. ,

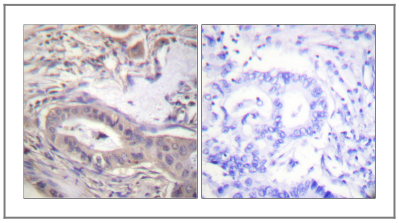
Validation Data



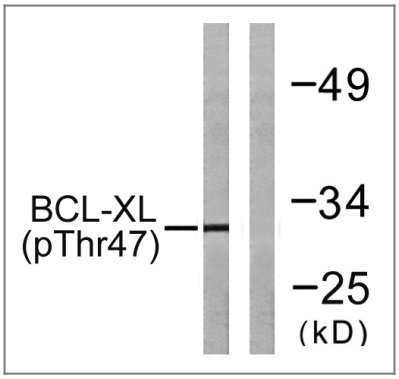
Western blot analysis of RAT-MUSLE using Phospho-Bcl-x (T47) antibody. Antibody was diluted at 1:500



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using BCL-XL (Phospho-Thr47) Antibody



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma, using BCL-XL (Phospho-Thr47) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from 293 cells treated with UV 30', using BCL-XL (Phospho-Thr47) 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:
Bcl-x (Phospho Thr47) Rabbit pAb

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