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Bcl-w Antibody (BH3 Domain Specific)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1305a

Product Information

Application	WB, IHC-P, E
Primary Accession	Q92843
Other Accession	P70345, Q1RMX3
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	20746
Antigen Region	24-59

Additional Information

Gene ID	599
Other Names	Bcl-2-like protein 2, Bcl2-L-2, Apoptosis regulator Bcl-W, BCL2L2, BCLW, KIAA0271
Target/Specificity	This Bcl antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 24-59 amino acids from human Bcl.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Bcl-w Antibody (BH3 Domain Specific) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	BCL2L2
Synonyms	BCLW, KIAA0271
Function	Promotes cell survival. Blocks dexamethasone-induced apoptosis. Mediates survival of postmitotic Sertoli cells by suppressing death-promoting activity of

BAX.

Cellular Location Mitochondrion membrane; Peripheral membrane protein. Note=Loosely associated with the mitochondrial membrane in healthy cells. During apoptosis, tightly bound to the membrane

Tissue Location Expressed (at protein level) in a wide range of tissues with highest levels in brain, spinal cord, testis, pancreas, heart, spleen and mammary glands. Moderate levels found in thymus, ovary and small intestine. Not detected in salivary gland, muscle or liver. Also expressed in cell lines of myeloid, fibroblast and epithelial origin. Not detected in most lymphoid cell lines

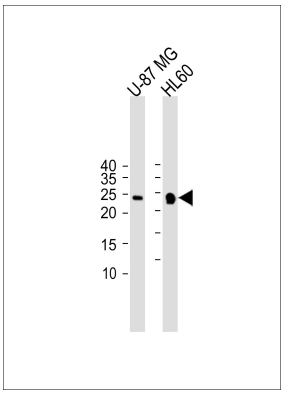
Background

Bcl-w is a member of the BCL-2 protein family. The proteins of this family form hetero- or homodimers and act as anti- and pro-apoptotic regulators. Expression of this gene in cells has been shown to contribute to reduced cell apoptosis under cytotoxic conditions. Studies of the related gene in mice indicated a role in the survival of NGF- and BDNF-dependent neurons. Mutation and knockout studies of the mouse gene demonstrated an essential role in adult spermatogenesis.

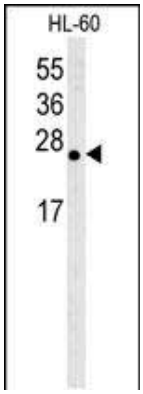
References

Denisov, A.Y., et al., J. Biol. Chem. 278(23):21124-21128 (2003).
Hinds, M.G., et al., EMBO J. 22(7):1497-1507 (2003).
Middleton, G., et al., Development 128(3):447-457 (2001).
Ross, A.J., et al., Nat. Genet. 18(3):251-256 (1998).
Gibson, L., et al., Oncogene 13(4):665-675 (1996).

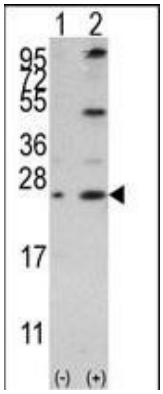
Images



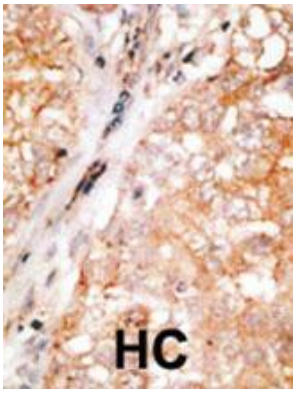
All lanes : Anti-Bcl-w Antibody (BH3 Domain Specific) at 1:1000 dilution Lane 1: U-87 MG whole cell lysate Lane 2: HL-60 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size : 21kDa Blocking/Dilution buffer: 5% NFDM/TBST.



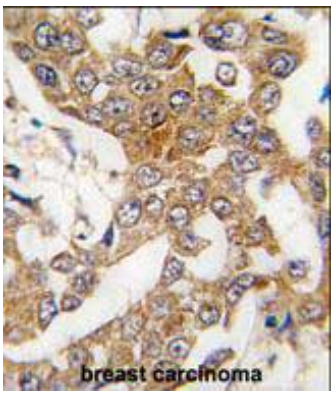
Western blot analysis of anti-Bcl-w BH3 domain Pab (Cat. #AP1305a) in HL-60 cell lysate. Bcl-w BH3 domain (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.



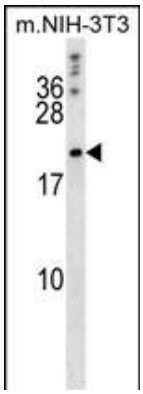
Western blot analysis of Bcl-w3 (arrow) using rabbit polyclonal Bcl-w BH3 Domain Antibody (Cat.#AP1305a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the BCL2L2 gene (Lane 2) (Origene Technologies).



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with Bcl-w BH3 Domain Antibody (Cat.#AP1305a), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



BCLW Antibody (BH3) (RB00972) western blot analysis in mouse NIH-3T3 cell line lysates (35ug/lane).This demonstrates the BCLW antibody detected the BCLW protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.