

Product Datasheet

Bcl-xL Antibody - BSA Free

NB100-56104

Unit Size: 0.05 ml

Store at -20C. Avoid freeze-thaw cycles.

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NB100-56104

Bcl-xL Antibody - BSA Free

| Product Information | |
|----------------------|--|
| Unit Size | 0.05 ml |
| Concentration | This product is unpurified. The exact concentration of antibody is not quantifiable. |
| Storage | Store at -20C. Avoid freeze-thaw cycles. |
| Clonality | Polyclonal |
| Preservative | 0.05% Sodium Azide |
| Isotype | IgG |
| Purity | Unpurified |
| Buffer | Whole antisera |

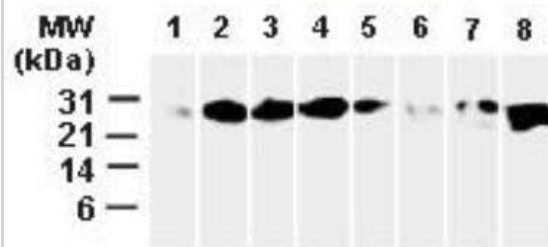
| Product Description | |
|--------------------------------|---|
| Description | Novus Biologicals Rabbit Bcl-xL Antibody - BSA Free (NB100-56104) is a polyclonal antibody validated for use in IHC, WB and IP. Anti-Bcl-xL Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee. |
| Host | Rabbit |
| Gene ID | 598 |
| Gene Symbol | BCL2L1 |
| Species | Human, Mouse, Rat, Canine |
| Reactivity Notes | Mouse, Canine, Rat reactivity reported in scientific literature (PMID: 15380478). |
| Specificity/Sensitivity | Bcl-XL+S |
| Immunogen | A synthetic peptide corresponding to amino acids 46-66 (ETPSAINGNPSWHLADSPAVN) of human Bcl-xL was used as immunogen; GenBank no. CAA80661.1. The immunogen sequence is 100% conserved in Bcl-XS. The immunogen sequence is 100% in multiple species including mouse, rat, dog, cow, gerbil, and sheep. |

| Product Application Details | |
|------------------------------|---|
| Applications | Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation |
| Recommended Dilutions | Western Blot 1:1000-1:2000, Immunohistochemistry, Immunoprecipitation 1:50-1:200, Immunohistochemistry-Paraffin 1:1000-1:5000, Immunohistochemistry-Frozen 1:10-1:500 |
| Application Notes | IHC (frozen): Users should optimize according to model and immunodetection system used (secondary reagents) |



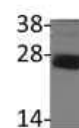
Images

Western Blot: Bcl-xL Antibody [NB100-56104] - WB analysis of tissue lysates from breast surgical tumor tissue biopsies (Lanes 1-7). Bcl-XS is not detected and variable amounts of Bcl-XL (~30 kDa) is detected. Lane 8. Recombinant Bcl-XL (positive control).

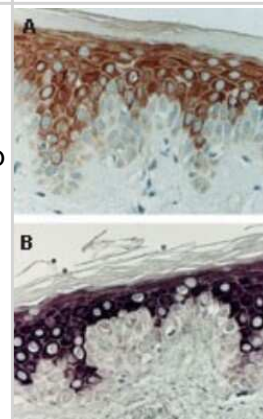


Western Blot: Bcl-xL Antibody [NB100-56104] - Analysis of Bcl-xL in Daoy whole cell lysate using anti-Bcl-xL antibody. Image from verified customer review.

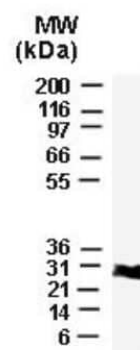
BCLXL NB100-56104



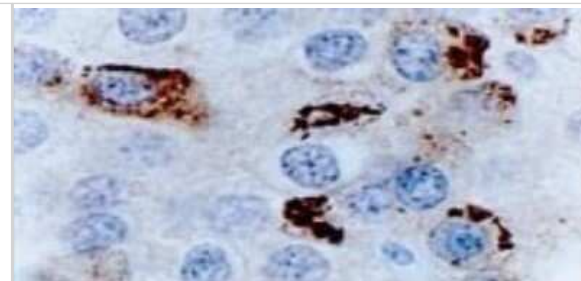
Immunohistochemistry-Paraffin: Bcl-xL Antibody [NB100-56104] - Formalin-fixed paraffin-embedded sections of human epidermis stained for Bcl-xL expression. The bottom image was negative for Bcl-xL expression. The adjacent stratum spinosum and middle stratum granulosum layers were both very positive for Bcl-xL expression. The top stratum corneum consisting mainly of dead or peeling cells were both negative for Bcl-xL expression.



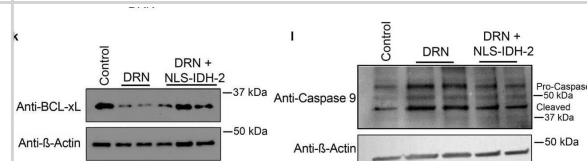
Western Blot: Bcl-xL Antibody [NB100-56104] - Analysis of Bcl-xL in lysates from isolated rat liver mitochondria using this antibody. The antibody detected Bcl-xL at ~30 kDa.



Immunohistochemistry-Paraffin: Bcl-xL Antibody [NB100-56104] - Analysis of Bcl-xL in human breast carcinoma at 1:2000. Formalin-fixed, paraffin-embedded tissue section from invasive ductal carcinoma. An organellar/mitochondrial pattern of Bcl-xL staining is observed in the cytosol of tumor cells.



Nuclear translocation of TCA cycle enzymes prevents doxorubicin-mediated cellular damage. a–c Enzyme activity of IDH-2 (n = 4) (a), MDH-2 (n = 3) (b), and PDHC (n = 3) (c) in nuclei isolated from cells transduced with tetracycline-inducible NLS-IDH-2 constructs. Activity is represented as the rate in nM/min or Δ OD/min, p value* <0.05, p value**** = 0.0001, and lysates were probed for PCNA to detect equal nuclear protein amounts used for the assay. d Reduced apoptotic cell death as measured by Annexin-V:FITC staining in cells expressing nuclear TCA cycle dehydrogenases prior to doxorubicin DRN treatment. N = 3 p value* <0.05 (e) Quantification of troponin I released from cardiomyocytes as a marker of cardiac injury, minimum n = 4 p value** <0.007, p value* <0.05. f Cell death as measured by Cell Titer Glo™ in cells expressing nuclear dehydrogenases prior to DRN treatment. minimum n = 4 p value*** = 0.0001, p value**** <0.0001. NLS-EGFP-2A-NLS-mCherry was used as a control for the 2 A linker system. g DNA damage as assessed by γ -H2AX foci formation. Scale bar 20 μ m. h, i qRT-PCR showing the expression of anti-apoptotic genes BCL2 (h) and MCL1 (i). n = 3 P value ** <0.005, * <0.05. j–l Protein levels of anti-apoptotic proteins (j, k along with reduced caspase 9 cleavage (l) in cells expressing nuclear IDH-2 compared to cells treated with doxorubicin. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/37468519>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Srivastava S, Gajwani P, Jousma J et al. Nuclear translocation of mitochondrial dehydrogenases as an adaptive cardioprotective mechanism *Nature communications* 2023-07-19 [PMID: 37468519] (WB, Human)

Details:

Dilutions: 1:1000

Saleh T, El-Sadoni M, Alhesa A Et al. Expression of Senescence and Apoptosis Biomarkers in Synchronous Bilateral Breast Cancer: A Case Report *Current oncology (Toronto, Ont.)* 2021-09-30 [PMID: 34677245] (IF/IHC, Human)

Krajewska M, Rosenthal RE, Mikolajczyk J et al. Early processing of Bid and caspase-6, -8, -10, -14 in the canine brain during cardiac arrest and resuscitation. *Exp Neurol.* 2004-10-01 [PMID: 15380478] (IHC-P, WB, Mouse, Canine, Rat)

Details:

Antibodies cited: 1. Caspase-9 (Active/Cleaved), IMG-5705: WB: Fig 1A (recombinant human caspase-9), Fig 4A (recombinant human caspase-9, rat brain), Fig 4B-F (isolated mitochondria from rat liver or heart). Fig 5 (PC12 cells) IHC (P): Fig 2d-k (rat kidney)



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Products Related to NB100-56104

| | |
|-------------|---|
| NBL1-07946 | Bcl-xL Overexpression Lysate |
| NBP2-33376H | Blue Marker Antibody (6F4-F6) [HRP] |
| HAF008 | Goat anti-Rabbit IgG Secondary Antibody [HRP] |
| NB7160 | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP2-24891 | Rabbit IgG Isotype Control |

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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