

# Product Datasheet

## Bcl-2 Antibody NB100-56098

Unit Size: 0.05 ml

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

[www.novusbio.com](http://www.novusbio.com)



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Updated 10/23/2024 v.20.1

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**NB100-56098**

## Bcl-2 Antibody

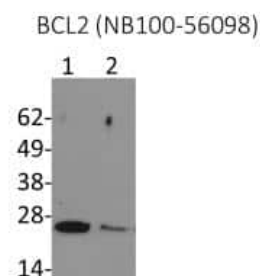
Product Information	
Unit Size	0.05 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Unpurified
Buffer	Whole antisera

Product Description	
Host	Rabbit
Gene ID	596
Gene Symbol	BCL2
Species	Human, Mouse, Rat, Canine
Reactivity Notes	Use in Rat reported in scientific literature (PMID:34575863). Mouse, Canine, Rat reactivity reported in scientific literature (PMID: 15380478).
Immunogen	A synthetic peptide corresponding to amino acids 41-54 (GAAPAGIFSSQPG) of human Bcl-2 was used as immunogen; GenBank no. NP_000648.2. This sequence is 100% conserved in human Bcl-2 alpha (239 aa) and beta (205 aa) isoforms.

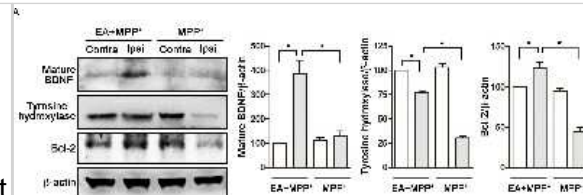
Product Application Details	
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:1000-1:2000, Immunohistochemistry, Immunoprecipitation 1:50-1:200, Immunohistochemistry-Paraffin 1:1000-1:5000

**Images**

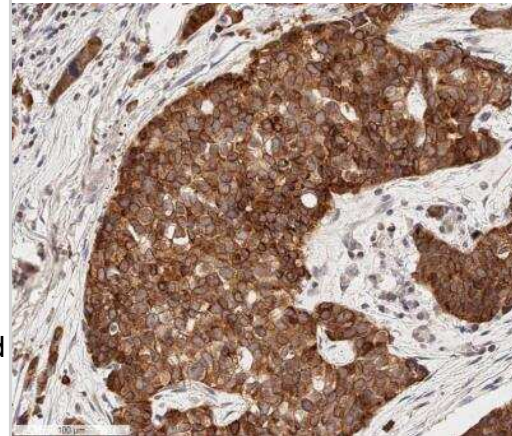
Western Blot: Bcl-2 Antibody [NB100-56098] - Analysis of Bcl-2 in whole cell lysate from Daoy cells. Cells were transfected with (1) scrambled control siRNA or (2) Bcl-2 siRNA. Image from verified customer review.



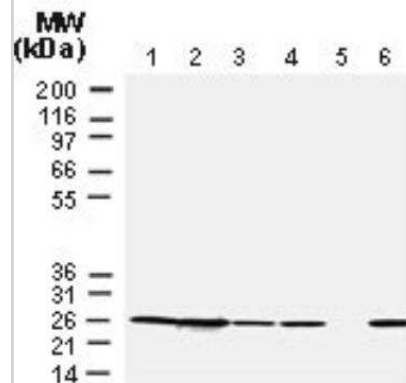
Western Blot: Bcl-2 Antibody [NB100-56098] - EA reduced MPP<sup>+</sup>-induced dopaminergic neuronal apoptosis by increasing BDNF (brain-derived neurotrophic factor) expression and further Akt phosphorylation in the rat substantia nigra. Eight days after MPP<sup>+</sup> administration, our Western blot results (MAB7566) show that MPP<sup>+</sup> treatment reduced tyrosine hydroxylase and Bcl-2 expression in the ipsilateral side of the rat substantia nigra (SN), but not in the contralateral side. EA stimulation (50 Hz) enhanced mature BDNF, tyrosine hydroxylase, and Bcl-2 expression in the MPP<sup>+</sup>-treated ipsilateral side. Image collected and cropped by CiteAb from the following publication (<https://www.mdpi.com/1422-0067/18/9/1846>), licensed under a CC-BY license.



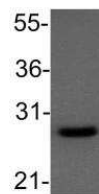
Immunohistochemistry-Paraffin: Bcl-2 Antibody [NB100-56098] - Analysis of a FFPE human breast carcinoma tissue section using 1:1000 dilution of Bcl-2 antibody (NB100-56098) on a Bond Rx autostainer (Leica Biosystems). The assay involved 20 minutes of heat induced antigen retrieval (HIER) with 10mM sodium citrate buffer (pH 6.0) and endogenous peroxidase quenching using peroxide block. The sections were incubated with primary antibody for 30 minutes. Bond Polymer Refine Detection (Leica Biosystems) and DAB were used for signal detection which followed counterstaining with hematoxylin. Whole slide scanning and capturing of representative images (20X) were performed using Aperio AT2 (Leica Biosystems). This antibody generated a diffused cytoplasmic staining of BCL2 in the cancer cells with relatively intense signal in their nuclear membranes. Staining was performed by Histowiz.



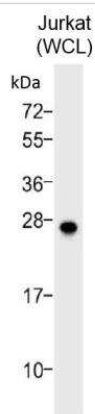
Western Blot: Bcl-2 Antibody [NB100-56098] - Analysis of Bcl-2 using this antibody at 1:2000, 20 ug/protein was loaded per lane. (1) Human Jurkat T cells. (2) Human RS11 lymphoma cells. (3-6) Human breast cancer cases. Patient sample in lane 5 lacked detectible Bcl-2 expression.



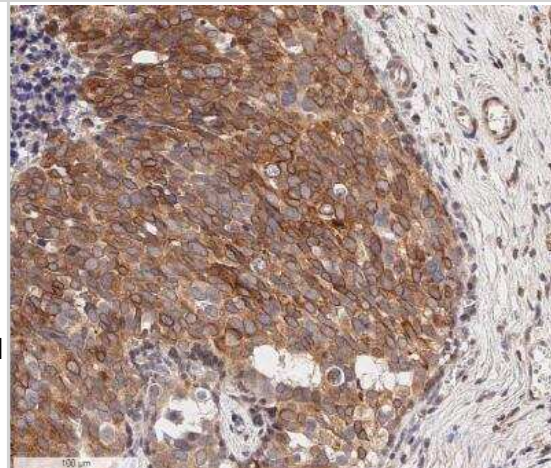
Western Blot: Bcl-2 Antibody [NB100-56098] - Analysis of Bcl-2 in 293T cell lysate (30ug) using anti-Bcl-2 antibody. Image from verified customer review.



**Western Blot: Bcl-2 Antibody [NB100-56098]** - Analysis of whole cell lysate (WCL) of Jurkat cells using anti-Bcl-2 antibody (NB100-56098) at 1:1000 dilution. HRP conjugated goat anti-rabbit IgG (H+L) cross adsorbed secondary antibody was used with ECL substrate for the detection of Bcl2 antibody bound to the blotted protein. This Bcl2 antibody detected a specific band at expected molecular weight marker position of Bcl2 protein (26kDa).



**Immunohistochemistry-Paraffin: Bcl-2 Antibody [NB100-56098]** - Analysis of a FFPE human breast carcinoma tissue section using 1:1000 dilution of Bcl-2 antibody (NB100-56098) on a Bond Rx autostainer (Leica Biosystems). The assay involved 20 minutes of heat induced antigen retrieval (HIER) with 10mM sodium citrate buffer (pH 6.0) and endogenous peroxidase quenching using peroxide block. The sections were incubated with primary antibody for 30 minutes. Bond Polymer Refine Detection (Leica Biosystems) and DAB were used for signal detection which followed counterstaining with hematoxylin. Whole slide scanning and capturing of representative images (20X) were performed using Aperio AT2 (Leica Biosystems). This antibody generated a diffused cytoplasmic staining of BCL2 in the cancer cells with relatively intense signal in their nuclear membranes. The endothelial cells and the stromal cells showed a weak signal while the RBCs were negative for BCL2.



## Publications

Kim A, Lee DY, Sung JJ., et Al. Cdk5 inhibition in the SOD1(G93A) transgenic mouse model of amyotrophic lateral sclerosis suppresses neurodegeneration and extends survival J Neurochem 2024-06-27 [PMID: 38934222]

Lee DY, Kwon YN, Lee K, Kim SJ et Al. Dual effects of TGF- $\beta$  inhibitor in ALS - inhibit contracture and neurodegeneration J Neurochem 2024-03-22 [PMID: 38515326]

Adewale Adetutu, Abiodun Bukunmi Aborisade, Faith Ayotunde Ogunsina, Peter Ifeoluwa Adegbola, Temitope Deborah Olaniyi Ginger mitigated the health risks associated with arsenic-contamination of rats feed via inflammatory and apoptosis regulation. Ecotoxicology and environmental safety 2023-12-07 [PMID: 38064790]

Yan Huo, Abudureheman Mijiti, Ruonan Cai, Zhaohua Gao, Maierpu Aini, Abudukadier Mijiti, Zhaoling Wang, Rui Qie Scutellarin alleviates type 2 diabetes (HFD/low dose STZ)-induced cardiac injury through modulation of oxidative stress, inflammation, apoptosis and fibrosis in mice. Human & experimental toxicology 2022-03-07 [PMID: 34610774]

Jinglong Wang, Cheyenne A Sadeghi, Richard L Frock DNA-PKcs suppresses illegitimate chromosome rearrangements Nucleic Acids Research 2024-05-22 [PMID: 38412274]

Han EJ, Choi EY, Jeon SJ et al. Piperlongumine induces apoptosis and autophagy via the PI3K/Akt/mTOR pathway in KB human cervical cancer cells Food and chemical toxicology : an international journal published for the British Industrial Biological Research Association 2023-09-19 [PMID: 37734464] (WB, Human)

Choi EY, Jung GH, Woo JS et al. Dendropanax morbiferus H. Lév. Leaf Extract Inhibits the Proliferation of MDA-MB-231 Breast Cancer Cells and Induces Apoptosis via the MAPK Pathway In Vitro and In Vivo Anticancer research 2023-07-01 [PMID: 37351981]

Han EJ, Choi EY, Jeon SJ et al. Piperine Induces Apoptosis and Autophagy in HSC-3 Human Oral Cancer Cells by Regulating PI3K Signaling Pathway Int J Mol Sci 2023-09-11 [PMID: 37762259] (Block/Neutralize)

Kshirsagar S, Alvir RV, Pradeepkiran JA et al. A Combination Therapy of Urolithin A+EGCG Has Stronger Protective Effects than Single Drug Urolithin A in a Humanized Amyloid Beta Knockin Mice for Late-Onset Alzheimer's Disease Cells 2022-08-27 [PMID: 36078067] (Western Blot)

EI-Naseery NI, Elewa YHA, El-Behery EI, Dessouky AA Human umbilical cord blood-derived mesenchymal stem cells restored hematopoiesis by improving radiation induced bone marrow niche remodeling in rats Annals of anatomy = Anatomischer Anzeiger : official organ of the Anatomische Gesellschaft 2023-07-15 [PMID: 37460043] (IHC-P, Rat)

### Details:

1:1000 dilution

Almanzar VMD, Shah K, LaComb JF et al. 5-FU-miR-15a Inhibits Activation of Pancreatic Stellate Cells by Reducing YAP1 and BCL-2 Levels In Vitro International journal of molecular sciences 2023-02-16 [PMID: 36835366] (WB, IHC, Mouse)

Reed KJ, Landry GM Diglycolic acid inhibits succinate dehydrogenase activity, depletes mitochondrial membrane potential, and induces inflammation in an SH-SY5Y neuroblastoma model of neurotoxicity in vitro Toxicology and applied pharmacology 2023-02-06 [PMID: 36754214] (WB, Human)

More publications at <http://www.novusbio.com/NB100-56098>





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### **Products Related to NB100-56098**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-34889-100ug	Recombinant Human Bcl-2 Protein

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### **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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