

# Product Datasheet

## Bcl-2 Antibody (124) NBP2-34443-0.1mg

Unit Size: 0.1 mg

Store at 4C.

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**NBP2-34443-0.1mg**

Bcl-2 Antibody (124)

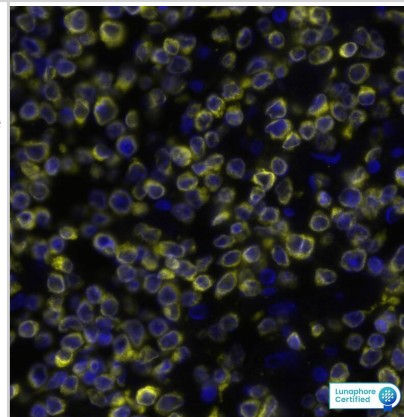
Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	124
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS with 0.05% BSA

Product Description	
Description	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0 mg/ml. (NBP2-34513)  Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80 C.
Host	Mouse
Gene ID	596
Gene Symbol	BCL2
Species	Human, Mouse (Negative)
Reactivity Notes	Does not react with Mouse. Others-not known
Marker	Apoptosis & Follicular Lymphoma Marker
Specificity/Sensitivity	This antibody recognizes a protein of 25-26kDa, identified as the Bcl-2 alpha oncoprotein. It shows no cross-reaction with Bcl-x or Bax protein. Expression of Bcl-2 alpha oncoprotein inhibits the programmed cell death (apoptosis). In most follicular lymphomas, neoplastic germinal centers express high levels of Bcl-2 alpha protein, whereas the normal or hyperplastic germinal centers are negative. Consequently, this antibody is valuable when distinguishing between reactive and neoplastic follicular proliferation in lymph node biopsies. It may also be used in distinguishing between those follicular lymphomas that express Bcl-2 protein and the small number in which the neoplastic cells are Bcl-2 negative.
Immunogen	A synthetic peptide, aa41-54 (GAAPAPGIFSSQPG-Cys) of human Bcl-2 protein (Uniprot: P10415)

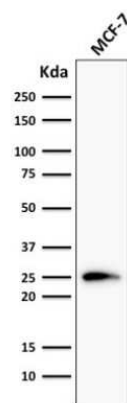
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, COMET
Recommended Dilutions	Western Blot 1-2 ug/ml, Flow Cytometry 1-2 ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 1-2 ug/ml, COMET
Application Notes	Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.

## Images

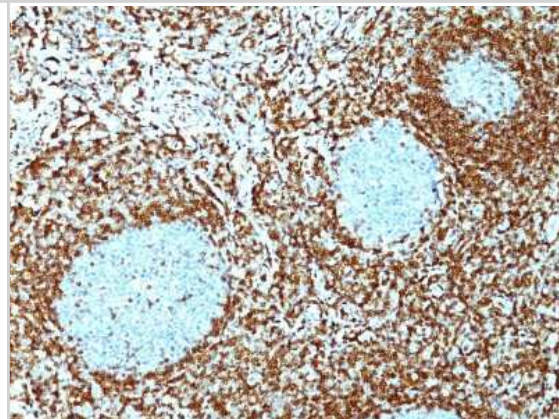
BCL2 was detected in immersion fixed paraffin-embedded sections of human Non-Hodgkin's Lymphoma using Mouse Anti-Human BCL2, Monoclonal Antibody (Catalog #NBP2-34443) at a 1:500 dilution at 37 ° Celsius for 4 minutes. Before incubation with the primary antibody, tissue underwent an all-in-one dewaxing and antigen retrieval preprocessing using PreTreatment Module (PT Module) and Dewax and HIER Buffer H (pH 9; EpreDia Catalog # TA-999-DHBH). Tissue was stained using the Alexa Fluor™ 647 Goat anti-Mouse IgG Secondary Antibody at 1:200 at 37 ° Celsius for 2 minutes. (Yellow; Lunaphore Catalog # [DR647MS](#)) and counterstained with DAPI (blue; Lunaphore Catalog # [DR100](#)). Specific staining was localized to the membrane. Protocol available in [COMET™ Panel Builder](#).



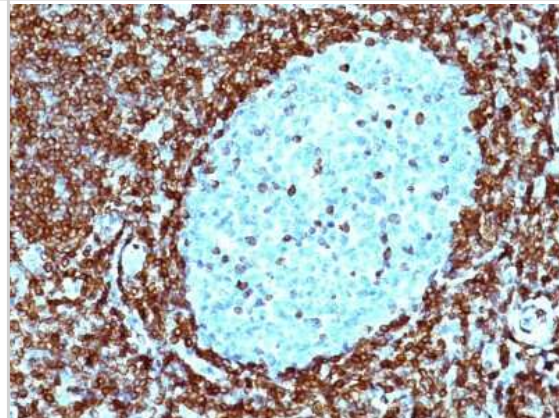
Western Blot: Bcl-2 Antibody (124) [NBP2-34443] - Western Blot Analysis of MCF-7 cells using Bcl-2 Antibody (124).



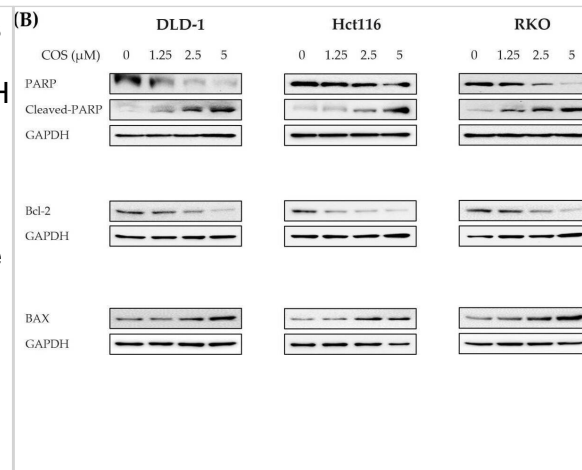
Immunohistochemistry-Paraffin: Bcl-2 Antibody (124) [NBP2-34443] - Formalin-fixed, paraffin-embedded human tonsil stained with Bcl-2 Mouse Monoclonal Antibody (124).



Immunohistochemistry-Paraffin: Bcl-2 Antibody (124) [NBP2-34443] - Formalin-fixed, paraffin-embedded human non-Hodgkin's lymphoma stained with Bcl-2 MAb (124). Note nuclear membrane & cytoplasmic staining.



Measurement of apoptosis-related protein and the ratio of apoptotic cells in a colon cancer cell line by COS. (A,B) Protein expression levels for p-AKT, AKT, p-ERK, ERK, PARP, cleaved-PARP, Bcl-2, BAX, and GAPDH were assessed using Western blot analysis. (C) The quantification of apoptotic cells was conducted through FACS analysis, employing PI-Annexin V staining. (D) The bar chart represents the cells of the ratio of apoptosis. DLD-1, Hct116, and RKO cells were treated with COS (0, 1.25, 2.5, or 5  $\mu$ M) for a duration of 2 days. The results are shown as the means and SEMs. \*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$ , and \*\*\*\*  $p < 0.0001$  compared to their respective controls. The experiments were conducted three times independently. Image collected and cropped by CiteAb from the following open publication (<https://www.mdpi.com/2076-3921/12/12/2131>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Jung Ho Han, Eun-Ji Lee, Wonyoung Park, Jang-Gi Choi, Ki-Tae Ha, Hwan-Suck Chung, Jordi Oliver Cosmósi  
Induces Apoptosis in Colorectal Cancer by Inhibiting PD-L1 Expression and Inducing ROS Antioxidants 2023-12-18  
[PMID: 38136250]

Hogh-Binder S, Klein D, Wolfsperger F et al. Protein Levels of Anti-Apoptotic Mcl-1 and the Deubiquitinase USP9x  
Are Cooperatively Upregulated during Prostate Cancer Progression and Limit Response of Prostate Cancer Cells to  
Radiotherapy Cancers 2023-04-26 [PMID: 37173959]

Wang BJ, Huang SH, Kao CL et al. Aspalathus linearis suppresses cell survival and proliferation of enzalutamide-  
resistant prostate cancer cells via inhibition of c-Myc and stability of androgen receptor PloS one 2022-07-01 [PMID:  
35776912] (WB, Human)

Di Paola A, Palumbo G, Tortora C et al. Eltrombopag in paediatric immune thrombocytopenia: Iron metabolism  
modulation in mesenchymal stromal cells British journal of haematology 2021-12-28 [PMID: 34961933] (WB, Human)

Guha S, Paidi RK, Goswami S et al. ICAM-1 protects neurons against Amyloid-beta and improves cognitive behaviors  
in 5xFAD mice by inhibiting NF-kappa B Brain, behavior, and immunity 2021-12-05 [PMID: 34875346] (Rat)

Woo JS, Yoo ES, Kim SH Et al. Anticancer effects of oleanolic acid on human melanoma cells Chemico-biological  
interactions 2021-08-05 [PMID: 34364837]



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### **Products Related to NBP2-34443-0.1mg**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NB100-56100PEP	Bcl-2 Antibody Blocking Peptide

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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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