

# Product Datasheet

## Mcl-1 Antibody - BSA Free NB100-56146

Unit Size: 0.05 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Updated 9/9/2025 v.20.1

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**NB100-56146**

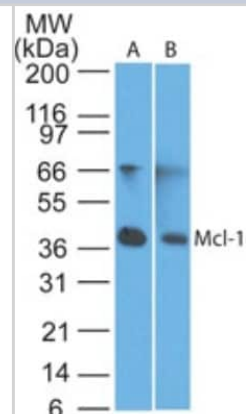
Mcl-1 Antibody - BSA Free

<b>Product Information</b>	
<b>Unit Size</b>	0.05 ml
<b>Concentration</b>	This product is unpurified. The exact concentration of antibody is not quantifiable.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Unpurified
<b>Buffer</b>	Whole antisera
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Rabbit Mcl-1 Antibody - BSA Free (NB100-56146) is a polyclonal antibody validated for use in IHC, WB and IP. Anti-Mcl-1 Antibody: Cited in 5 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	4170
<b>Gene Symbol</b>	MCL1
<b>Species</b>	Human
<b>Immunogen</b>	A synthetic peptide corresponding to amino acids 121-139 (SPEEELDGYEPEPLGKRPA) of human Mcl-1 was used as immunogen, GenBank no. NP_068779.1. The immunogen sequence is 100% conserved in Mcl-1 isoform 1 (GenBank no. NP_068779.1) and isoform 2 (GenBank no. NP_877495.1).
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry, Immunoprecipitation
<b>Recommended Dilutions</b>	Western Blot 1:1000-1:2000, Immunohistochemistry, Immunoprecipitation 1:50-1:200, Immunohistochemistry-Paraffin 1:1000-1:5000
<b>Application Notes</b>	Immunoprecipitation, Western Blot, Immunohistochemistry-Paraffin IHC (frozen): Users should optimize according to model and immunodetection system used (secondary reagents)

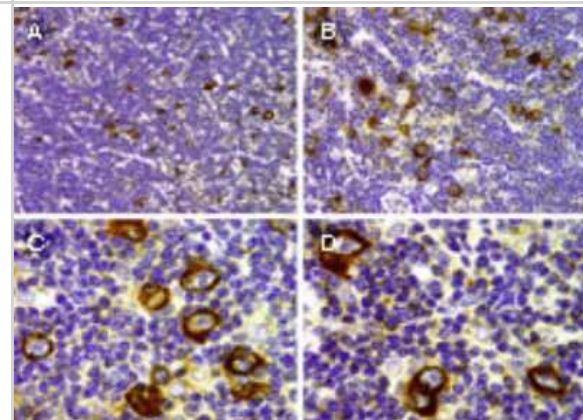


## Images

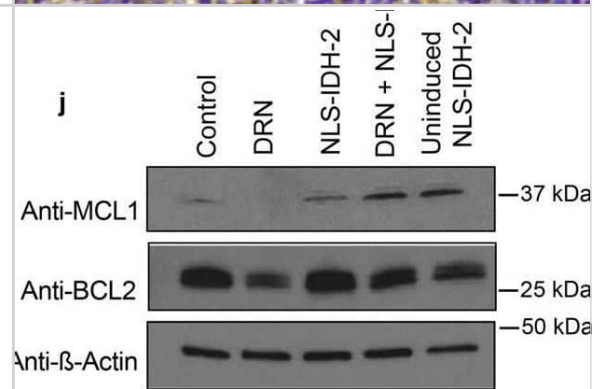
Western Blot: MCL1 Antibody [NB100-56146] - analysis of Mcl-1 in A) Ramos and B) ThP-1 lysate using Mcl-1 antibody at 1:2000.



Immunohistochemistry-Paraffin: MCL1 Antibody [NB100-56146] - Formalin-fixed paraffin-embedded tissue sections of human diffuse, aggressive Non-Hodgkin's lymphoma (NHL) of B cell lineage stained for Mcl-1 expression using Mcl-1 antibody at 1:2000. A-D, Mcl-1 staining shown as varying magnifications. Hematoxylin-eosin counterstain.



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  $\Delta$ 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 GloTM 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  $\gamma$ -H2AX foci formation. Scale bar 20  $\mu$ 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)

Reynolds JE, Yang T, Qian L et al. Mcl-1, a member of the Bcl-2 family, delays apoptosis induced by c-Myc overexpression in Chinese hamster ovary cells. Cancer Res. 1994-12-15 [PMID: 7987827] (WB)

Details:

Mcl-1 (IMG-5733). WB: Untransfected Chinese hamster ovary 5AHSmyc cells, Bcl-2 transfected 5AHSmyc cells, and human myeloblastic ML-1 cells treated with TPA, Fig 2C.

Krajewski S, Bodrug S, Krajewska M et al. Immunohistochemical analysis of Mcl-1 protein in human tissues. Differential regulation of Mcl-1 and Bcl-2 protein production suggests a unique role for Mcl-1 in control of programmed cell death in vivo. Am J Pathol. 1995-06-01 [PMID: 7778670]

Ohta K, Iwai K, Kasahara Y et al. Immunoblot analysis of cellular expression of Bcl-2 family proteins, Bcl-2, Bax, Bcl-X and Mcl-1, in human peripheral blood and lymphoid tissues. Int Immunol. 1995-11-01 [PMID: 8580080] (WB, Human)

Details:

WB: Bcl-2 (IMG-5685), Mcl-1 (IMG-5733), Bax (IMG-5682), Bcl-X (IMG-80459). 1. WB: Human PBMC, neutrophils, tonsil, spleen, thymus, Fig 1A.



### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NB100-56146**

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NB820-59242	Human Lymph Node Whole Tissue Lysate (Adult Whole Normal)
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

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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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