Product Datasheet

Bcl-2 Antibody (E17)
NB110-55551

Unit Size: 0.1 ml

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

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Publications: 15

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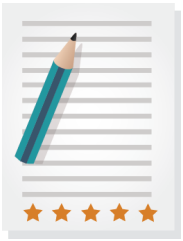

NB110-55551

Bcl-2 Antibody (E17)

Product Information	
Unit Size	0.1 ml
Concentration	0.01 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	E17
Preservative	No Preservative
Isotype	IgG
Purity	Protein A or G purified
Buffer	Culture supernatant in buffered aqueous solution
Target Molecular Weight	26 kDa

Product Description	
Host	Rabbit
Gene ID	596
Gene Symbol	BCL2
Species	Human
Reactivity Notes	Species cross reactivity tested by Western Blot only.
Specificity/Sensitivity	The antibody does not cross-react with other Bcl-2 family members
Immunogen	A synthetic peptide corresponding to residues between BH3 and BH4 of human Bcl-2 was used as immunogen.

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:1000-1:10000, Flow Cytometry 1:200, Immunohistochemistry 1:10-1:500, Immunocytochemistry/Immunofluorescence 1:200, Immunoprecipitation 1:50, Immunohistochemistry-Paraffin 1:100-1:200
Application Notes	This is a high affinity, high titer antibody. Optimal dilutions should be determined by the end user. (Provided dilutions serve only as a suggestive starting point.)

Publications

Ozsobacı NP, Ergun DD, Tuncdemir M, OzCelik D Protective Effects of Zinc on 2.45 GHz Electromagnetic Radiation-Induced Oxidative Stress and Apoptosis in HEK293 Cells Biol Trace Elem Res Jul 17 2019 12:00AM [PMID: 31317470] (IHC, Human)

May KL, Paton JC, Paton AW et al. Escherichia coli subtilase cytotoxin induces apoptosis regulated by host Bcl-2 family proteins Bax/Bak. Infect Immun 2010 Nov [PMID: 20713620] (WB)

Steinacker P, Hawlik A, Lehnert S et al. Neuroprotective function of cellular prion protein in a mouse model of amyotrophic lateral sclerosis. Am J Pathol 2010 Mar [PMID: 20075202] (WB)

Yecies D, Carlson NE, Deng J et al. Acquired resistance to ABT-737 in lymphoma cells that up-regulate MCL-1 and BFL-1. Blood 2010 Apr [PMID: 20197552] (WB)

Winkler J, Martin-Killias P, Pluckthun A et al. EpCAM-targeted delivery of nanocomplexed siRNA to tumor cells with designed ankyrin repeat proteins. Mol Cancer Ther 2009 Sep [PMID: 19723880] (WB)

Savage KJ, Johnson NA, Ben-Neriah S et al. MYC gene rearrangements are associated with a poor prognosis in diffuse large B-cell lymphoma patients treated with R-CHOP chemotherapy. Blood 2009 Oct [PMID: 19704118] (WB)

Bai Y, Meng Z, Cui M et al. An Ang1-Tie2-PI3K axis in neural progenitor cells initiates survival responses against oxygen and glucose deprivation. Neuroscience 2009 May [PMID: 19409199] (WB)

Masir N, Campbell LJ, Goff LK et al. BCL2 protein expression in follicular lymphomas with t(14;18) chromosomal translocations. Br J Haematol 2009 Mar [PMID: 19120369] (WB)

Eliseev RA, Dong YF, Sampson E et al. Runx2-mediated activation of the Bax gene increases osteosarcoma cell sensitivity to apoptosis. Oncogene 2008 Jun [PMID: 18223689] (WB)

Priault M, Hue E, Marhuenda F et al. Differential dependence on Beclin 1 for the regulation of pro-survival autophagy by Bcl-2 and Bcl-xL in HCT116 colorectal cancer cells. PLoS One 2010 Jan [PMID: 20090905] (IP)

Eliseev RA, Malecki J, Lester T et al. Cyclophilin D interacts with Bcl2 and exerts an anti-apoptotic effect. J Biol Chem 2009 Apr [PMID: 19228691] (IP)

Deng J, Carlson N, Takeyama K et al. BH3 profiling identifies three distinct classes of apoptotic blocks to predict response to ABT-737 and conventional chemotherapeutic agents. Cancer Cell 2007 Aug [PMID: 17692808] (IP)

More publications at http://www.novusbio.com/NB110-55551

Procedures

Immunohistochemistry Protocol for Bcl2 Antibody (NB110-55551)
Immunohistochemistry Protocol for Bcl2 Antibody (NB110-55551): https://www.novusbio.com/products/bcl-2-antibody-e17_nb110-55551
Immunohistochemistry Protocol for Paraffin-embedded Tissues

1. Solutions and reagents
1.1. Xylene
1.2. Ethanol, anhydrous denatured, histological grade (100%, 95%, 70%)
1.3. Washing buffer:
TBST washing buffer: 1XTBS/0.1% Tween-20
To prepare stock solution of 10X TBS: add 24.2 g Trizma base and 80 g sodium chloride to 1L of dH2O. Adjust pH to 7.6.
Working solution. 1XTBST/0.1% Tween-20: add 100ml 10XTBS to 900 ml dH2O. Add 1 ml Tween-20 and mix well.
1.4. Distilled water (dH2O)
1.5. Antigen Retrieval Solution:
0.01M Sodium Citrate Buffer, pH 6.0
To prepare stock solutions:
Solution A. 0.1 M citric acid solution: dissolve 21.0 g of citric acid, monohydrate (C6H8O7.H2O) in 1 liter of dH2O.
Solution B. 0.1M sodium citrate solution: dissolve 29.4 g trisodium citrate dihydrate (C6H5Na3O7.2H2O) in 1 liter of dH2O.
Working solution: Add 9 ml of Stock solution A and 41 ml of stock solution B to 450 ml of dH2O. Adjust pH to 6.0.
1.6. 3% Hydrogene Peroxide
1.7. Blocking buffer:
PBS (Dulbeccos Phosphate Buffered Salts, 1X, catalog #21-031-CV from Mediatech, Inc.) + 10% serum (serum origin depends on the host of the secondary antibody)
1.8. Hematoxylin QS (catalog #H-3404 from Vector Laboratories, Inc.)
1.9. Permanent Mounting medium (VectaMount, catalog# H-5000 Vector Laboratories, Inc.)

2. Protocol

2.1. Deparaffinization/Rehydration
2.1.1. Heat slides in an oven at 65C for 1 hour.
2.1.2. De-paraffinize/hydrate using the following series of washes: two Xylene washes (5 min each), followed by two 100% ethanol rinses (5 min each), followed by 95% ethanol, 70% ethanol, 50% ethanol, 30% ethanol, followed by H2O and a TBST wash for 5 min on a shaker.
2.2. Antigen Retrieval
2.2.1. Immerse slides into staining dish containing Antigen Retrieval Solution.
2.2.2. Place covered staining dish into the rice cooker. Add 120 ml of dH2O.
2.2.3. When cook is turned to warm (about 20 to 30 min), unplug the cooker and remove the staining dish to the bench top.
2.2.4. Allow to cool down, without cover, for 20 min.
2.3. Staining
2.3.1. Wash slides with TBST for 5 min on a shaker.
2.3.2. Inactivate endogenous peroxidase by covering tissue with 3% hydrogen peroxide for 10 min.
2.3.3. Wash slides three times with TBST (3 min each on a shaker).
2.3.4. Block slides with the blocking solution for 1 hour.
2.3.5. Dilute primary antibody in the blocking buffer per recommendation on the data sheet.
2.3.6. Apply primary antibody to each section and incubate overnight in the humidified chamber (4C).
2.3.7. Wash slides three times with TBST (3 min each on a shaker).
2.3.8. Apply to each section secondary HRP-conjugated anti-rabbit antibody diluted in the blocking solution per manufacturers recommendation; incubate for 1 hour at room temperature.
2.3.9. Wash slides three times with TBST (3 min each on a shaker).
2.3.10. Add freshly prepared DAB substrate to the sections.
2.3.11. Incubate tissue sections with the substrate at room temperature until suitable staining develops (generally 2 to 5 min).
2.3.12. Rinse sections with water.
2.3.13. Counterstain with Hematoxylin.

2.3.14. Rinse sections with water.
2.3.15. Dehydrate samples using two rinses with 100% Ethanol (20 dips per rinse) followed by two rinses with Xylene (30 dips per rinse).
2.3.16. Mount coverslips on slides using Permount medium.

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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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