

Bcl-X Monoclonal Antibody (2H12)

Catalog NumberMA5-14011

Product data sheet

Details		Species Reactivity	
Size	500 µL	Species reactivity	Human, Mouse, Pig, Rat
Host/Isotope	Mouse / IgG2a	Published species	Rat, Human, Not Applicable
Class	Monoclonal	Tested Applications	
Type	Antibody	Flow Cytometry (Flow)	Dilution * Assay-dependent
Clone	2H12	Immunohistochemistry (Paraffin) (IHC (P))	2-4 µg/mL
Immunogen	A synthetic peptide, aa 3-14 (Cys-QSNRELVVDFLS) of human Bcl-X protein. This amino acid sequence is shared by human and murine bcl-X protein.	Western Blot (WB)	Assay-Dependent
		Published Applications	
		Immunohistochemistry (Paraffin) (IHC (P))	See 1 publications below
Conjugate	Unconjugated	Western Blot (WB)	See 2 publications below
Form	Liquid	Immunohistochemistry (IHC)	See 2 publications below
Concentration	0.2 mg/mL	Immunocytochemistry (ICC/IF)	See 1 publications below
Purification	Protein A	Miscellaneous PubMed (Misc)	See 1 publications below
Storage buffer	PBS, pH 7.4, with 0.2% BSA	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Contains	0.09% sodium azide		
Storage Conditions	4° C		

Product specific information

This antibody reacts with both Bcl-XS (short) and Bcl-XL (long) proteins. The immunogenic sequence (aa 3-14) is conserved in human and mice. Staining of formalin-fixed paraffin-embedded tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 20 min followed by cooling at room temperature for 20 min. A recommended positive control is Hodgkin's lymphoma.

Background/Target Information

The protein encoded the BCL-X gene belongs to the BCL-2 protein family. BCL-2 family members form hetero- or homodimers and act as anti- or pro-apoptotic regulators that are involved in a wide variety of cellular activities. The proteins encoded by this gene are located at the outer mitochondrial membrane, and have been shown to regulate outer mitochondrial membrane channel (VDAC) opening. VDAC regulates mitochondrial membrane potential, and thus controls the production of reactive oxygen species and release of cytochrome C by mitochondria, both of which are the potent inducers of cell apoptosis. Alternative splicing results in multiple transcript variants encoding two different isoforms. The longer isoform acts as an apoptotic inhibitor and the shorter isoform acts as an apoptotic activator.

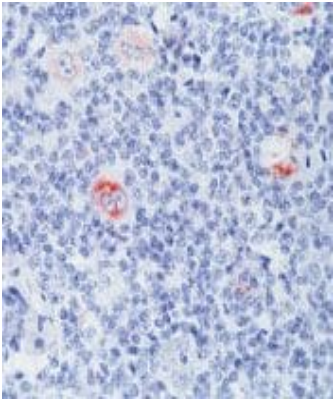
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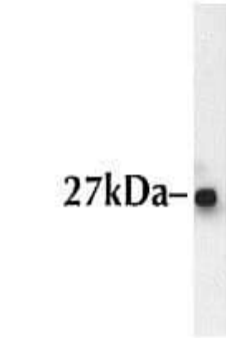
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Product Images For Bcl-X Monoclonal Antibody (2H12)



Bcl-X Antibody (MA5-14011) in IHC (P)

Formalin-fixed, paraffin-embedded human Hodgkin's lymphoma stained with Bcl-X antibody using peroxidase-conjugate and AEC chromogen. Note cell membrane staining of Reed-Sternberg cells.



Bcl-X Antibody (MA5-14011) in WB

Western blot analysis of BCL-X in CEM cell extracts using a BCL-X monoclonal antibody (Product # MA5-14011).

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PubMed References For Bcl-X Monoclonal Antibody (2H12)

1 Immunohistochemistry (Paraffin) References

Species / Dilution	Summary
Not Applicable / Not Cited	MA5-14011 was used in immunohistochemistry - paraffin section to identify prognostic biomarkers for complex karyotype soft tissue sarcoma
	Annals of oncology : official journal of the European Society for Medical Oncology (2010; 21: 1112) "Molecular prognosticators of complex karyotype soft tissue sarcoma outcome: a tissue microarray-based study."
	Author(s):Lahat G,Tuvin D,Wei C,Wang WL,Pollock RE,Anaya DA,Bekele BN,Corely L,Lazar AJ,Pisters PW,Lev D PubMed Article URL: http://dx.doi.org/10.1093/annonc/mdp459

2 Western Blot References

Species / Dilution	Summary
Human / Not Cited	MA5-14011 was used in western blot to examine the anti-apoptotic role of Bcl-xL and myeloid cell leukaemia-1 in colorectal cancer cells
	World journal of gastroenterology (2008; 14: 3829) "Bcl-x(L) and Myeloid cell leukaemia-1 contribute to apoptosis resistance of colorectal cancer cells." Author(s):Schulze-Bergkamen H,Ehrenberg R,Hickmann L,Vick B,Urbaniak T,Schimanski CC,Berger MR,Schad A,Weber A,Heeger S,Galle PR,Moehler M PubMed Article URL: http://dx.doi.org/10.3748/wjg.14.3829
Rat / Not Cited	MA5-14011 was used in western blot to study the role of Bcl-2 and mitochondria in the neuroprotective effects of minocycline
	The Journal of biological chemistry (2004; 279: 19948) "Minocycline up-regulates Bcl-2 and protects against cell death in mitochondria." Author(s):Wang J,Wei Q,Wang CY,Hill WD,Hess DC,Dong Z PubMed Article URL: http://dx.doi.org/10.1074/jbc.M313629200

2 Immunohistochemistry References

Species / Dilution	Summary
Human / 2 µg/mL	MA5-14011 was used in immunohistochemistry to investigate cell death in osteoarthritic cartilage and the role of caspase-3 during this process
	Arthritis and rheumatism (2004; 50: 507) "Increased apoptosis in human osteoarthritic cartilage corresponds to reduced cell density and expression of caspase-3." Author(s):Sharif M,Whitehouse A,Sharman P,Perry M,Adams M PubMed Article URL: http://dx.doi.org/10.1002/art.20020
Human / 0.5 µg/mL	MA5-14011 was used in immunohistochemistry to investigate the role of Epstein-Barr virus infection in the immune response of non-monomorphic post-transplant lymphoproliferative disorders
	Haematologica (2006; 91: 1313) "Identification of rare Epstein-Barr virus infected memory B cells and plasma cells in non-monomorphic post-transplant lymphoproliferative disorders and the signature of viral signaling." Author(s):Shaknovich R,Basso K,Bhagat G,Mansukhani M,Hatzivassiliou G,Murty VV,Buettner M,Niedobitek G,Alobeid B,Cattoretti G PubMed Article URL: http://www.ncbi.nlm.nih.gov/pubmed/17018379

1 Immunocytochemistry References

Species / Dilution	Summary
Not Applicable / 1:100	MA5-14011 was used in immunocytochemistry to elucidate the role of Bcl-x(S) in nerve growth factor-inhibitable apoptosis
	Experimental cell research (2004; 297: 392) "Bcl-x(S) induces an NGF-inhibitable cytochrome c release." Author(s):Lindenboim L,Schlipf S,Kaufmann T,Borner C,Stein R PubMed Article URL: http://dx.doi.org/10.1016/j.yexcr.2004.03.001

1 Miscellaneous PubMed References

Species / Dilution	Summary
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MA5-14011 was used in immunohistochemistry to study the role of various bcl-2 family molecules in the regulation of apoptosis and the progression of urothelial cancer.

European urology (2002; 41: 274)

"Differential expression of bcl-2 family proteins in bladder carcinomas. Relationship with apoptotic rate and survival."

Author(s):Korkolopoulou P,Lazaris ACh,Konstantinidou AE,Kavantzias N,Patsouris E,Christodoulou P,Thomas-Tsagli E,Davaris P

PubMed Article URL:[http://dx.doi.org/10.1016/s0302-2838\(02\)00003-9](http://dx.doi.org/10.1016/s0302-2838(02)00003-9)

Human / 1:150

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