

Bcl-X Monoclonal Antibody (2H12), Biotin

Catalog NumberMA5-14008

Product data sheet

Details		Species Reactivity	
Size	500 µL	Species reactivity	Human, Mouse, Pig, Rat
Host/Isotope	Mouse / IgG2a	Published species	Rat, Human
Class	Monoclonal	Tested Applications	Dilution *
Type	Antibody	Flow Cytometry (Flow)	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.	Published Applications	
Conjugate	Biotin	Western Blot (WB)	See 2 publications below
Form	Liquid	Immunohistochemistry (IHC)	See 2 publications below
Concentration	0.2 mg/mL	* 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.	
Storage Conditions	4° C		

Product specific information

MA5-14008 targets BCL-X in FACS, IF, and IHC (P) applications and shows reactivity with Human, mouse, Porcine, and Rat samples. The MA5-14008 immunogen is a synthetic peptide, aa 3-14 (Cys-QSNRELVVDFLS) of human Bcl-X protein. This amino acid sequence is shared by human and mouse bcl-X protein.

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.

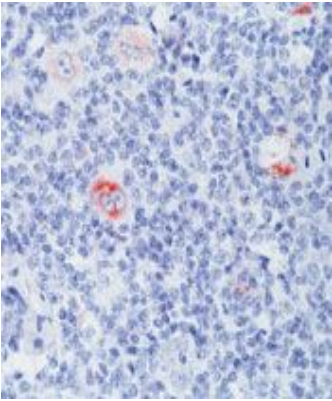
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Product Images For Bcl-X Monoclonal Antibody (2H12), Biotin



Bcl-X Antibody (MA5-14008) in IHC

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.

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

2 Western Blot References

Species / Dilution	Summary
Human / Not Cited	MA5-14008 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	MA5-14008 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	MA5-14008 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	MA5-14008 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

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