

Datasheet: MCA2738

Description:	MOUSE ANTI HUMAN BAX (N-TERMINAL)
Specificity:	BAX (N-TERMINAL)
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	2D2
Isotype:	IgG1
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			■	
Immunohistology - Frozen			■	
Immunohistology - Paraffin			■	
ELISA	■			0.5 - 1.0ug/ml
Immunoprecipitation	■			
Western Blotting	■			0.5 - 1.0ug/ml
Immunofluorescence	■			0.5 - 1.0ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Species Cross Reactivity	Reacts with: African green monkey , Bovine Does not react with: Mouse, Rat N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	A synthetic peptide corresponding to the N-terminal region (aa 3-16) of human Bax having the

sequence C-GSGEQPRGGGPTSS.

**External Database
Links**

UniProt:

[Q07812](#) [Related reagents](#)

Entrez Gene:

[581](#) BAX [Related reagents](#)

Synonyms

BCL2L4

Fusion Partners

Splenocytes from mice immunized with KLH-conjugated BAX peptide were fused with cells of the murine [NS-1](#) myeloma.

Specificity

Mouse anti Human BAX antibody, clone 2D2 recognizes an epitope within the N-terminal (NT) region of human apoptosis regulator BAX, also known as Bcl-2-like protein 4. BAX is a pro-apoptotic member of the Bcl-2 family. BAX accelerates programmed cell death by binding to and antagonizing the apoptosis repressor Bcl-2 or its adenovirus homolog [E1B 19k](#) protein. It also induces the release of cytochrome C, activation of caspase-3 and thereby apoptosis. Defects in BAX are found in some cell lines from hematopoietic malignancies as T-cell acute lymphoblastic leukemia, Burkitt lymphoma, and plasmacytoma ([Brimmell et al. 1998](#)).

Mouse anti Human BAX antibody, clone 2D2 has been successfully used for the immunoprecipitation of bovine BAX from thymus ([Basañez et al. 1999](#)).

Western Blotting

MCA2738 detects a band of approximately 23kDa in COLO320 DM cell lysates.

References

1. Hsu, Y.T. and Youle, R.J. (1997) Nonionic detergents induce dimerization among members of the Bcl-2 family. [J Biol Chem. 272: 13829-34.](#)
 2. Hsu, Y.T. et al. (1997) Cytosol-to-membrane redistribution of Bax and Bcl-X(L) during apoptosis. [Proc Natl Acad Sci U S A. 94 \(8\): 3668-72.](#)
 3. Wolter, K.G. et al. (1997) Movement of Bax from the cytosol to mitochondria during apoptosis. [J Cell Biol. 139: 1281-92.](#)
 4. Zhang, Y. et al. (2002) Selective cytotoxicity of intracellular amyloid beta peptide1-42 through p53 and Bax in cultured primary human neurons. [J Cell Biol. 156: 519-29.](#)
 5. Basañez, G. et al. (1999) Bax, but not Bcl-xL, decreases the lifetime of planar phospholipid bilayer membranes at subnanomolar concentrations. [Proc Natl Acad Sci U S A. 96: 5492-7.](#)
 6. Yethon, J.A. et al. (2003) Interaction with a membrane surface triggers a reversible conformational change in Bax normally associated with induction of apoptosis. [J Biol Chem. 278: 48935-41.](#)
 7. Liu, F.T. et al. (2003) Bax conformational change is a crucial step for PUMA-mediated apoptosis in human leukemia. [Biochem Biophys Res Commun. 310: 956-62.](#)
 8. Edlich F et al. (2011) Bcl-x(L) retrotranslocates Bax from the mitochondria into the cytosol. [Cell. 145: 104-16.](#)
 9. Zhou, H. et al. (2007) Complete activation of Bax by a single site mutation. [Oncogene. 26: 7092-102.](#)
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Storage

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation available at: Material Safety Datasheet Documentation #10040 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Human Anti Mouse IgG1 (HCA036...)	HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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Printed on 19 Jan 2018