

## Datasheet: MCA2738

<b>Description:</b>	MOUSE ANTI HUMAN BAX (N-TERMINAL)
<b>Specificity:</b>	BAX (N-TERMINAL)
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	2D2
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

### Product Form

Purified IgG - liquid

### Preparation

Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/ml
<b>Immunogen</b>	A synthetic peptide corresponding to the N-terminal region (aa 3-16) of human Bax having the sequence C-GSGEQPRGGGPTSS.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q07812</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">581</a>    BAX    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	BCL2L4
<b>RRID</b>	AB_2061697
<b>Fusion Partners</b>	Splenocytes from mice immunized with KLH-conjugated BAX peptide were fused with cells of the murine <a href="#">NS-1</a> myeloma.
<b>Specificity</b>	<p><b>Mouse anti Human BAX antibody, clone 2D2</b> 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 <a href="#">E1B 19k</a> 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 (<a href="#">Brimmell et al. 1998</a>).</p> <p>Mouse anti Human BAX antibody, clone 2D2 has been successfully used for the immunoprecipitation of bovine BAX from thymus (<a href="#">Basañez et al. 1999</a>).</p>
<b>Western Blotting</b>	MCA2738 detects a band of approximately 23kDa in COLO320 DM cell lysates.
<b>References</b>	<ol style="list-style-type: none"> <li>Hsu, Y.T. and Youle, R.J. (1997) Nonionic detergents induce dimerization among members of the Bcl-2 family. <a href="#">J Biol Chem. 272: 13829-34.</a></li> <li>Hsu, Y.T. et al. (1997) Cytosol-to-membrane redistribution of Bax and Bcl-X(L) during apoptosis. <a href="#">Proc Natl Acad Sci U S A. 94 (8): 3668-72.</a></li> <li>Wolter, K.G. et al. (1997) Movement of Bax from the cytosol to mitochondria during apoptosis. <a href="#">J Cell Biol.139: 1281-92.</a></li> <li>Zhang, Y. et al. (2002) Selective cytotoxicity of intracellular amyloid beta peptide1-42 through p53 and Bax in cultured primary human neurons. <a href="#">J Cell Biol. 156: 519-29.</a></li> <li>Basañez, G. et al. (1999) Bax, but not Bcl-xL, decreases the lifetime of planar phospholipid bilayer membranes at subnanomolar concentrations. <a href="#">Proc Natl Acad Sci U S</a></li> </ol>

[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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<b>Storage</b>	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.
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: 10040: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a>
<b>Regulatory</b>	For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR8...)	<a href="#">DyLight®800</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>

### Recommended Negative Controls

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)

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