

Datasheet: MCA2118

Description:	MOUSE ANTI HUMAN GRANZYME B
Specificity:	GRANZYME B
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	GB7
Isotype:	IgG2a
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 (1)	▪			1/50 - 1/200
ELISA			▪	
Immunoprecipitation			▪	

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	TRIS buffered saline
Preservative Stabilisers	0.01% Thiomersal
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Recombinant Granzyme B.
External Database Links	UniProt: P10144 Related reagents

Entrez Gene:

[3002](#) [GZMB](#) [Related reagents](#)

Synonyms	CGL1, CSPB, CTLA1, GRB
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RRID	AB_323716
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Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the mouse SP2/0 myeloma cell line.
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Specificity	<p>Mouse anti Human Granzyme B antibody, clone GB7 recognizes the serine protease Granzyme B, expressed within the granules of cytolytic lymphocytes (CTLs)</p> <p>Granzyme B plays a key role in the induction of apoptosis by CTLs. After delivery to the target cell Granzyme B activates the cascade of caspases that finally results in cell death.</p> <p>Mouse anti Human Granzyme B antibody, clone GB7 has been reported to be suitable for Western Blotting, demonstrating reactivity with recombinant granzyme B and also reactivity with recombinant granzyme H (Sedelies et al. 2004). Human granzymes B and H share ~71% sequence identity by clustal analysis.</p>
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References	<ol style="list-style-type: none">1. Kummer, J.A. <i>et al.</i> (1993) Production and characterization of monoclonal antibodies raised against recombinant human granzymes A and B and showing cross reactions with the natural proteins. J Immunol Methods. 163 (1): 77-83.2. Nield, L.E. <i>et al.</i> (2002) Endocardial fibroelastosis associated with maternal anti-Ro and anti-La antibodies in the absence of atrioventricular block. J Am Coll Cardiol. 40: 796-802.3. Himmelein, S. <i>et al.</i> (2015) Latent herpes simplex virus 1 infection does not induce apoptosis in human trigeminal Ganglia. J Virol. 89 (10): 5747-50.4. Cohen, M. <i>et al.</i> (2018) Epstein-Barr virus lytic cycle involvement in diffuse large B cell lymphoma. Hematol Oncol. 36 (1): 98-103.5. Sedelies, K.A. <i>et al.</i> (2004) Discordant regulation of granzyme H and granzyme B expression in human lymphocytes. J Biol Chem. 279 (25): 26581-7.
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Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p> <p>Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
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Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10098 available at: 10098: https://www.bio-rad-antibodies.com/uploads/MSDS/10098.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Goat Anti Mouse IgG (STAR77...) [HRP](#)
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Rabbit Anti Mouse IgG (STAR8...) [DyLight@800](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Human Anti Mouse IgG2a (HCA037...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@680](#),
[DyLight@800](#), [FITC](#), [HRP](#)

Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

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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