Datasheet: MCA6138 BATCH NUMBER 152810

Format:PurifiedProduct Type:Monoclonal AntibodyClone:dG9Isotype:IgG2b	Description:	MOUSE ANTI HUMAN PERFORIN
Product Type:Monoclonal AntibodyClone:dG9Isotype:IgG2b	Specificity:	PERFORIN
Clone: dG9 Isotype: lgG2b	Format:	Purified
Isotype: IgG2b	Product Type:	Monoclonal Antibody
	Clone:	dG9
Quantity: 0.1 mg	Isotype:	lgG2b
	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 <u>www.bio-rad-antibodies.com/protocols</u> .						
	Flow Cytometry (1)	Yes	No	Not Determined	Suggested Dilution		
	Immunohistology - Frozen	-					
	Immunohistology - Prozen	-					
	Immunoprecipitation						
	Immunocytochemistry	-					
	Where this product has n	-			· · · · · · · · · · · · · · · · · · ·		
	system using appropriate (1) Membrane permeab recommends the use o f	ilisation	is require	ed for this application			
Target Species	Human						
Species Cross	Reacts with: Bovine						
Reactivity	Does not react with:Mouse						
	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					
Buffer Solution	TRIS buffered saline					
Preservative Stabilisers	<0.1% Sodium Azide (NaN ₃)					
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml					
Immunogen	Purified granules from human YT lymphoma cell line					
External Database Links	UniProt: P14222 Related reagents Entrez Gene: 5551 PRF1 Related reagents					
Synonyms	PFP					
Specificity	 Mouse anti Human perforin, clone dG9 recognizes perforin a 60-70 kDa glycoprotein largely expressed in CD8+ cytotoxin T lymphocytes and Natural Killer cells. It aids in defense against virus-infected or neoplastic cells by inducing apoptosis. Perforin achieves this by inserting a portion of its C-terminus region into the lipid membrane of the target in a calcium dependent manner. Subsequent polymerization with other perforin molecules forms a pore in the membrane. These pores allow the free influx and efflux of ions and proteins though the cell membrane. This disruption to homeostasis results in tonic shock which can ultimately lead to apoptosis and DNA degradation (Osinska et al. 2014). Genetic abnormalities to the perforin gene have been shown to be linked to abnormal immune system functioning, the development of immune diseases as well as lymphomas and leukemias (Osinska et al. 2014). This clone dG9 has been used in flow cytometry experiments to examine intracellular perforin in tumour specific CD8+ T cells incubated with autologous primary breast cancer cells and Tregs (Su et al. 2017). 					
Purity	>95% by SDS PAGE					
Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted.					
Guarantee	12 months from date of despatch					
Health And Safety Information	Material Safety Datasheet documentation #10057 available at: https://www.bio-rad-antibodies.com/SDS/MCA6138 10057					

Related Products

Recommended Secondary Antibodies

	Rabbit Anti Mouse IgG (STAR12)	RPE			
	Goat Anti Mouse IgG IgA IgM (STAR87) <u>HRP</u>				
	Goat Anti Mouse IgG (STAR76)	RPE			
	Rabbit Anti Mouse IgG (STAR13)	HRP			
	Goat Anti Mouse IgG (STAR70)	<u>FITC</u>			
Goat Anti Mouse IgG (H/L) (STAR117)		Alk. Phos., DyLight®488, DyLight®550,			
		DyLight®650, DyLight®680, DyLight®800,			
		FITC, HRP			
	Rabbit Anti Mouse IgG (STAR9)	FITC			
	Goat Anti Mouse IgG (STAR77)	HRP			
	Goat Anti Mouse IgG (Fc) (STAR120)	FITC, HRP			
	Decomposed of Negative Controls				

Recommended Negative Controls

MOUSE IgG2b NEGATIVE CONTROL (MCA691)

Recommended Useful Reagents

LEUCOPERM (BUF09B)

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

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M353637:190509'

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