

Datasheet: MCA6138

BATCH NUMBER 152810

Description:	MOUSE ANTI HUMAN PERFORIN
Specificity:	PERFORIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	dG9
Isotype:	IgG2b
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 (1)	▪			
Immunohistology - Frozen	▪			
Immunohistology - Paraffin	▪			
Immunoprecipitation	▪			
Immunocytochemistry	▪			

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.

(1) Membrane permeabilisation is required for this application. Bio-Rad recommends the use of Leucoperm™ (Product Code [BUF09](#)) for this purpose.

Target Species	Human
Species Cross Reactivity	<p>Reacts with: Bovine</p> <p>Does not react with: Mouse</p> <p>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.</p>
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	<p>UniProt: P14222 Related reagents</p> <p>Entrez Gene: 5551 PRF1 Related reagents</p>
Synonyms	PFP
Specificity	<p>Mouse anti Human perforin, clone dG9 recognizes perforin a 60-70 kDa glycoprotein largely expressed in CD8+ cytotoxic 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 through the cell membrane. This disruption to homeostasis results in tonic shock which can ultimately lead to apoptosis and DNA degradation (Osinska et al. 2014).</p> <p>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).</p> <p>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).</p>
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...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC

Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL \(MCA691\)](#)

Recommended Useful Reagents

[LEUCOPERM \(BUF09B\)](#)

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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

'M353637:190509'

Printed on 20 Oct 2023
