

Datasheet: MCA967 BATCH NUMBER 180220

Description:	MOUSE ANTI RAT GRANULOCYTES AND ERYTHROID CELLS		
Specificity:	GRANULOCYTES		
Format:	S/N		
Product Type:	Monoclonal Antibody		
Clone:	HIS48		
Isotype:	IgM		
Quantity:	2 ml		

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	-			neat
Immunohistology - Frozen (1)	-			1/20
Immunohistology - Paraffin (2)	•			
ELISA			•	
Immunoprecipitation				
Western Blotting			•	
Immunofluorescence	-			

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

- (1)The epitope recognised by this antibody is reported to be sensitive to routine formaldehyde-based fixation and tissue processing. Bio-Rad recommends the use of acetone fixation for frozen sections.
- (2)The epitope recognised by this antibody is reported to be sensitive to routine formaldehyde-based fixation and tissue processing. Bio-Rad recommends PLP fixation for paraffin sections. See <u>Whiteland et al., 1995</u> and <u>Banerjee et al., 2003</u> for details.

Target Species	Rat
Product Form	Tissue Culture Supernatant - liquid

Preparation	Tissue Culture Supernatant containing 0.2M Tris/HCl pH7.4 and 8% foetal calf serum
Preservative Stabilisers	0.09% Sodium Azide
Immunogen	PVG rat spleen cell suspension.
RRID	AB_322077
Specificity	Mouse anti Rat granulocytes and erythroid cells antibody, clone HIS48 recognizes granulocytes and erythroid cells.
	Mouse anti Rat granulocytes and erythroid cells antibody, clone HIS48 has frequently been used to stain rat neutrophils in immunohistochemistry (Reckless et al. 2001).
Flow Cytometry	Use 10ul of the suggested working dilution to stain 10 ⁶ cells in 100ul.
References	 van Goor, H. <i>et al.</i> (1991) Determinants of focal and segmental glomerulosclerosis in the rat after renal ablation. Evidence for involvement of macrophages and lipids. <u>Lab Invest. 64 (6): 754-65.</u> Reckless, J. <i>et al.</i> (2001) The pan-chemokine inhibitor NR58-3.14.3 abolishes tumour necrosis factor-alpha accumulation and leucocyte recruitment induced by lipopolysaccharide in vivo. <u>Immunology. 103 (2): 244-54.</u> Dimitrijević, M. <i>et al.</i> (2010) Modulation of granulocyte functions by peptide YY in the rat: age-related differences in Y receptors expression and plasma dipeptidyl peptidase 4 activity. <u>Regul Pept. 159: 100-9.</u> Howard, K.M. <i>et al.</i> (2009) Differential expression of platelet-activating factor acetylhydrolase in lung macrophages. <u>Am J Physiol Lung Cell Mol Physiol. 297: L1141-50.</u> Trinh, L. <i>et al.</i> (2008) The corneal endothelium in an endotoxin-induced uveitis model: correlation between in vivo confocal microscopy and immunohistochemistry. <u>Mol Vis. 14:</u>
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- 11. Panichi, V. *et al.* (2001) Effects of 1,25(OH)2D3 in experimental mesangial proliferative nephritis in rats. <u>Kidney Int. 60: 87-95.</u>
- 12. van der Kaaij, N.P. *et al.* (2005) Surfactant pretreatment ameliorates ischemia-reperfusion injury of the lung. <u>Eur J Cardiothorac Surg. 27: 774-82.</u>

10. Homo-Delarche, F. et al. (2006) Islet inflammation and fibrosis in a spontaneous

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model of type 2 diabetes, the GK rat. <u>Diabetes. 55: 1625-33.</u>

the rat. Invest Ophthalmol Vis Sci. 48: 5473-83.

- 14. Nakagawa, K. *et al.* (2002) Lecithinized superoxide dismutase reduces cold ischemia-induced chronic allograft dysfunction. Kidney Int. 61: 1160-9.
- 15. Dugast, A.S. *et al.* (2008) Myeloid-derived suppressor cells accumulate in kidney allograft tolerance and specifically suppress effector T cell expansion. <u>J Immunol. 180:</u> 7898-906.
- 16. Ysebaert, D.K. *et al.* (2000) Identification and kinetics of leukocytes after severe ischaemia/reperfusion renal injury. Nephrol Dial Transplant. 15: 1562-74.
- 17. Szczesny, G. *et al.* (2004) Limb lymph node response to bone fracture. <u>Lymphat Res Biol. 2: 155-64.</u>
- 18. Steen, P.W. *et al.* (2010) Neutrophil responses to injury or inflammation impair peripheral gustatory function. Neuroscience. 167: 894-908.
- 19. Cantaluppi V *et al.* (2015) Endothelial progenitor cell-derived extracellular vesicles protect from complement-mediated mesangial injury in experimental anti-Thy1.1 glomerulonephritis. Nephrol Dial Transplant. 30 (3): 410-22.

Further Reading

1. Kampinga, J. *et al.* (1990) Thymocyte differentiation and thymic micro-environment development in the foetal rat thymus: an immunohistological approach. thymus in tolerance induction. In: The role of the Thymus Update 3. Eds. M.D. Kendall and M.A. Ritter. Harwood Academic Publishers GmbH, Switzerland.

Storage

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

This product should be stored undiluted.

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.

Guarantee	12 months from date of despatch	
Health And Safety Information	Material Safety Datasheet documentation #10055 available at: https://www.bio-rad-antibodies.com/SDS/MCA967 10055	
Regulatory	For research purposes only	

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgM (STAR138...) Alk. Phos.

Goat Anti Mouse IgG IgA IgM (STAR87...) HRP

North & South Tel: +1 800 265 7376 America Fax: +1 919 878 3751 Worldwide

Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Europe

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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 'M369225:200529'

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