Datasheet: MCA967

BATCH NUMBER 149556

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 Whiteland *et al.*, 1995 and Banerjee *et al.*, 2003 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	1. van Goor, H. *et al.* (1991) Determinants of focal and segmental glomerulosclerosis in the rat after renal ablation. Evidence for involvement of macrophages and lipids. Lab Invest. 64 (6): 754-65. 2. Reckless, J. *et al.* (2001) The pan-chemokine inhibitor NR58-3.14.3 abolishes tumour necrosis factor-alpha accumulation and leucocyte recruitment induced by lipopolysaccharide in vivo. Immunology. 103 (2): 244-54. 3. Dimitrijević, M. *et al.* (2010) Modulation of granulocyte functions by peptide YY in the rat: age-related differences in Y receptors expression and plasma dipeptidyl peptidase 4 activity. Regul Pept. 159: 100-9. 4. Howard, K.M. *et al.* (2009) Differential expression of platelet-activating factor acetylhydrolase in lung macrophages. Am J Physiol Lung Cell Mol Physiol. 297: L1141-50. 5. Trinh, L. *et al.* (2008) The corneal endothelium in an endotoxin-induced uveitis model: correlation between in vivo confocal microscopy and immunohistochemistry. Mol Vis. 14: 1149-56. 6. Narita, T. *et al.* (2012) The use of cell-sheet technique eliminates arrhythmogenicity of skeletal myoblast-based therapy to the heart with enhanced therapeutic effects. Int J Cardiol. pii: S0167-5273(12)01187-4. 7. Foucher, P. *et al.* (1999) Antimyeloperoxidase-associated Lung Disease An Experimental Model Am J Respir Crit Care Med. 160: 987-94. 8. Della Coletta Francescato, H. *et al.* (2011) Inhibition of hydrogen sulphide formation reduces cisplatin-induced renal damage. Nephrol Dial Transplant. 26: 479-88. 9. Gering, K.M. *et al.* (2006) The interaction mode of premalignant Schwann and immune effector cells during chemically induced carcinogenesis in the rat peripheral nervous system is strongly influenced by genetic background. Cancer Res. 66: 4708-14. 10. Homo-Delarche, F. *et al.* (2006) Islet inflammation and fibrosis in a spontaneous model of type 2 diabetes, the GK rat. Diabetes. 55: 1625-33. 11. Panichi, V. *et al.* (2001) Effects of 1,25(OH)2D3 in experimental mesangial proliferative nephritis in rats. Kidney Int. 60: 87-95. 12. van der Kaaij, N.P. *et al.* (2005) Surfactant pretreatment ameliorates ischemia-reperfusion injury of the lung. Eur J Cardiothorac Surg. 27: 774-82. 13. Pauly, A. *et al.* (2007) New tools for the evaluation of toxic ocular surface changes in

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. J Immunol. 180: 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. Lymphat Res Biol. 2: 155-64.
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

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