

Datasheet: 5870-8008

Description:	MOUSE ANTI HUMAN MACROPHAGE (TISSUE AND PROLIFERATIVE DISORDERS)
Specificity:	MACROPHAGE (TISSUE AND PROLIFERATIVE DISORDERS)
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	PM-2K
Isotype:	IgG1
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
Immunohistology - Frozen (1)	▪			1/200 - 1/800
Immunohistology - Paraffin		▪		
ELISA			▪	
Western Blotting	▪			

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 the appropriate negative/positive controls.

(1)The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. Bio-Rad recommends the use of acetone fixation for frozen sections.

Target Species

Human

Species Cross Reactivity

Reacts with: Dog, Pig, Monkey, Cat, Bovine

Does not react with: Hamster, Guinea Pig, Horse, Rat, Goat, Rabbit

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 - lyophilized

Reconstitution	Reconstitute with 0.5 ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.
Preparation	Purified IgG prepared by affinity chromatography from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.05% Kathon™ 0.5% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.2 mg/ml after reconstitution
Immunogen	Cultured human peritoneal macrophages.
RRID	AB_620210
Specificity	Mouse anti Human macrophages, clone PM-2K recognizes most tissue macrophages in thymus, spleen, lymph nodes and tonsil. It is positive on Kupffer cells (liver), alveolar macrophages and macrophages in the interstitial tissue of the kidney, pancreas and other organs. Mouse anti Human macrophages, clone PM-2K does not react with macrophage scavenger receptors AI and AII.
Histology Positive Control Tissue	Tonsil
Western Blotting	5870-8008 recognizes an antigen of 150 kDa on macrophage cell membranes.
References	<ol style="list-style-type: none"> 1. Frangogiannis, N.G. <i>et al.</i> (2002) Evidence for an active inflammatory process in the hibernating human myocardium. Am J Pathol. 160: 1425-33. 2. Kume, S. <i>et al.</i> (1995) Immunohistochemical and ultrastructural detection of advanced glycation end products in atherosclerotic lesions of human aorta with a novel specific monoclonal antibody. Am J Pathol. 147: 654-67. 3. Frangogiannis, N.G. <i>et al.</i> (2003) MCSF expression is induced in healing myocardial infarcts and may regulate monocyte and endothelial cell phenotype. Am J Physiol Heart Circ Physiol. 285: H483-92. 4. Somasundaram, P. <i>et al.</i> (2005) Mast cell tryptase may modulate endothelial cell phenotype in healing myocardial infarcts. J Pathol. 205: 102-11. 5. Zeng, L. <i>et al.</i> (1996) Interspecies reactivities of anti-human macrophage monoclonal antibodies to various animal species. J Histochem Cytochem. 44: 845-53. 6. Horiuchi, S. <i>et al.</i> (1996) Extra- and intracellular localization of advanced glycation end-products in human atherosclerotic lesions. Nephrol Dial Transplant. 11 Suppl 5: 81-6. 7. Dobaczewski, M. <i>et al.</i> (2006) Extracellular matrix remodeling in canine and mouse myocardial infarcts. Cell Tissue Res. 324: 475-88. 8. Dewald, O. <i>et al.</i> (2004) Of mice and dogs: species-specific differences in the inflammatory response following myocardial infarction Am J Pathol. 164: 665-77.

9. Pilling, D. *et al.* (2009) Identification of markers that distinguish monocyte-derived fibrocytes from monocytes, macrophages, and fibroblasts. [PLoS One. 4: e7475.](#)
10. Ribeiro Dos Santos, P. *et al.* (2011) Rapid dissemination of SIV follows multisite entry after rectal inoculation. [PLoS One. 6 \(5\): e19493.](#)
11. Kamihata, H. *et al.* (2001) Implantation of bone marrow mononuclear cells into ischemic myocardium enhances collateral perfusion and regional function via side supply of angioblasts, angiogenic ligands, and cytokines. [Circulation. 104 \(9\): 1046-52.](#)
12. Riddell, M.R. *et al.* (2012) The characterization of fibrocyte-like cells: a novel fibroblastic cell of the placenta. [Placenta. 33 \(3\): 143-50.](#)
13. Hung, C.H. *et al.* (2018) Altered pattern of monocyte differentiation and monocyte-derived TGF- β 1 in severe asthma. [Sci Rep. 8 \(1\): 919.](#)
14. Hung, C.H. *et al.* (2018) Altered monocyte differentiation and macrophage polarization patterns in patients with breast cancer. [BMC Cancer. 18 \(1\): 366.](#)
15. Hsieh, S.W. *et al.* (2020) M2b macrophage subset decrement as an indicator of cognitive function in Alzheimer's disease. [Psychiatry Clin Neurosci. 74 \(7\): 383-91.](#)
16. Kuo, C. *et al.* (2021) Altered Pattern of Macrophage Polarization as a Biomarker for Severity of Childhood Asthma [Journal of Inflammation Research. Volume 14: 6011-6023.](#)

Storage This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10556 available at: 10556: <https://www.bio-rad-antibodies.com/uploads/MSDS/10556.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
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 (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

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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

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