# CD68 monoclonal antibody, clone PM-1K

Catalog # MAB1715 Size 50 ug

## Applications



### Immunohistochemistry (Frozen sections)

Imunohistochemical analysis of human spleen tissue, using CD68 monoclonal antibody, clone PM-1K (Cat # MAB1715, 10 ug/mL).

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### Immunohistochemistry

Imunohistochemical analysis of guinea pig small intestine tissue, using CD68 monoclonal antibody, clone PM-1K (Cat # MAB1715, 10 ug/mL).

Specification	
Product Description	Mouse monoclonal antibody raised against native CD68.
Immunogen	Native purified from human peritoneal cells from patients with endometriosis.
Host	Mouse
Reactivity	Guinea pig, Human
Form	Liquid
lsotype	lgG2b, kappa

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# **Product Information**

Recommend Usage	Immunohistochemistry (10 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.1% proclin, 2.0% Block Ace)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.

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• Immunohistochemistry

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# Gene Info — CD68

Entrez GenelD	<u>968</u>
Gene Name	CD68
Gene Alias	DKFZp686M18236, GP110, SCARD1
Gene Description	CD68 molecule
Omim ID	<u>153634</u>
Gene Ontology	<u>Hyperlink</u>
Gene Summary	This gene encodes a 110-kD transmembrane glycoprotein that is highly expressed by human mo nocytes and tissue macrophages. It is a member of the lysosomal/endosomal-associated membr ane glycoprotein (LAMP) family. The protein primarily localizes to lysosomes and endosomes wit h a smaller fraction circulating to the cell surface. It is a type I integral membrane protein with a he avily glycosylated extracellular domain and binds to tissue- and organ-specific lectins or selectins. The protein is also a member of the scavenger receptor family. Scavenger receptors typically func tion to clear cellular debris, promote phagocytosis, and mediate the recruitment and activation of macrophages. Alternative splicing results in multiple transcripts encoding different isoforms. [provi ded by RefSeq
Other Designations	CD68 antigen OTTHUMP00000135285 macrophage antigen CD68 macrosialin scavenger recep tor class D, member 1

### **Publication Reference**

### Effect of Hypoxia Preconditioning on the Regenerative Capacity of Adipose Tissue Derived Mesenchymal Stem Cells in a Model of Renal Artery Stenosis.

Naba Farooqui, Arjunmohan Mohan, Busra Isik, Busra B Goksu, Roman Thaler, Xiang Yang Zhu, James D Krier, Ishran M Saadiq, Christopher M Ferguson, Kyra L Jordan, Hui Tang, Stephen C Textor, La Tonya J Hickson, Andre J van Wijnen, Alfonso Eirin, Lilach O Lerman, Sandra M Herrmann.

Stem Cells 2022 Oct; sxac073.

Application: IF, Pig, Pig renal

#### Biocompatible Tissue Graft.

#### Kathleen Anne Dervvin, Anthony Calabro.

United States Patent Application Publication 2016 Mar; [Epub].

Application: IF, Human, Acellular dermis matrix

 Durable Benefits of Cellular Postconditioning: Long-Term Effects of Allogeneic Cardiosphere-Derived Cells Infused After Reperfusion in Pigs with Acute Myocardial Infarction.

Kanazawa H, Tseliou E, Dawkins JF, De Couto G, Gallet R, Malliaras K, Yee K, Kreke M, Valle I, Smith RR, Middleton RC, Ho CS, Dharmakumar R, Li D, Makkar RR, Fukuda K, Marbán L, Marbán E.

Journal of the American Heart Association 2016 Feb; 5(2):e002796.

Application: IS, Pig, Cardiosphere-derived cells

#### Detection of guinea pig macrophages by a new CD68 monoclonal antibody, PM-1K.

Horikawa T, Komohara Y, Kiyota E, Terasaki Y, Takagi K, Takeya M. Journal of Molecular Histology 2006 Jan; 37(1-2):15.

Application: IF, IHC-Fr, IHC-P, IP, Human, Mouse, Human spleen, macrophages, Mouse tissues

### Distribution and cytological properties of macrophages in human Fallopian tubes.

Suenaga Y, Katabuchi H, Fukumatsu Y, Okamura H. Acta Anatomica 1998 Jul; 163(1):10.

• Role of macrophage tissue factor in the development of the delayed hypersensitivity reaction in monkey skin.

Imamura T, Iyama K, Takeya M, Kambara T, Nakamura S. Cellular Immunology 1993 Dec; 152(2):614.

 Factor XIII-dependent generation of 5th complement component(C5)-derived monocyte chemotactic factor coinciding with plasma clotting.

Okamoto M, Yamamoto T, Matsubara S, Kukita I, Takeya M, Miyauchi Y, Kambara T. Biochimica et Biophysica Acta 1992 Jan; 1138(1):53.



# Pathway

• Lysosome