

Datasheet: MCA1752

BATCH NUMBER 169114

Description:	MOUSE ANTI PIG ENDOTHELIAL CELLS
Specificity:	ENDOTHELIAL CELLS
Format:	S/N
Product Type:	Monoclonal Antibody
Clone:	MIL11
Isotype:	IgE
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			▪	
Immunohistology - Frozen	▪			1/20 - 1/100
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
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 appropriate negative/positive controls.

Target Species	Pig
Product Form	Tissue culture supernatant - liquid
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% sodium azide (NaN ₃)
Immunogen	Plastic adherent porcine peripheral blood lymphocytes.
RRID	AB_322717

Specificity **Mouse anti Pig endothelial cells, clone MIL11** raised initially against an immunogen of plastic adherent lymphocytes has been shown to recognize a major subset of porcine endothelial cells. MIL11 was initially identified as staining a characteristic pattern of capillary endothelium in gut forming a network in the lamina propria below the epithelial membrane. Staining was subsequently observed in capillary endothelium in most organs examined, including gut, lung, kidney and skin. Clone MIL11 was observed not to stain endothelium of aorta and other arteries whereas venous endothelium was positive for MIL11 staining. Some population of venous endothelial cells however appear negative for MIL11 staining including those associated with the heart wall, kidney glomeruli and corpus cavernosum ([Wilson et al.1996](#)) .

References

1. Wilson, A. D. *et al.* (1996) Expression of major histocompatibility complex class II antigens, on normal porcine intestinal endothelium. [Immunology 88: 98-103.](#)
2. Harrower, T.P. *et al.* (2006) Long-term survival and integration of porcine expanded neural precursor cell grafts in a rat model of Parkinson's disease. [Exp Neurol.197: 56-69.](#)
3. Inman, C.F. *et al.* (2010) Dendritic cells interact with CD4 T cells in intestinal mucosa. [J Leukoc Biol. 88 \(3\): 571-8.](#)
4. Cho, P.S. *et al.* (2008) Immunogenicity of umbilical cord tissue derived cells. [Blood. 111 \(1\): 430-8.](#)
5. Inman, C.F. *et al.* (2010) Rearing environment affects development of the immune system in neonates. [Clin Exp Immunol. 160: 431-9.](#)
6. Inman, C.F. *et al.* (2012) Neonatal colonisation expands a specific intestinal antigen-presenting cell subset prior to CD4 T-cell expansion, without altering T-cell repertoire. [PLoS One. 7: e33707.](#)
7. Planska, D. *et al.* (2015) Immunohistochemical Analysis of Collagen IV and Laminin Expression in Spontaneous Melanoma Regression in the Melanoma-Bearing Libechov Minipig. [Acta Histochem Cytochem. 48 \(1\): 15-26.](#)

Further Reading 1. Piriou-Guzylack, L. (2008) Membrane markers of the immune cells in swine: an update. [Vet Res. 39: 54.](#)

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 #10053 available at: <https://www.bio-rad-antibodies.com/SDS/MCA1752>
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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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