

Datasheet: MCA2420PE

Description:	MOUSE ANTI HUMAN CD62P:RPE
Specificity:	CD62P
Other names:	P-SELECTIN
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	Psel.KO.2.12
Isotype:	IgG1
Quantity:	100 TESTS

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

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.

Target Species	Human		
Species Cross Reactivity	Reacts with: Goat, Rat, Sheep N.B. Antibody reactivity and working conditions may vary between species.		
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized		
Reconstitution	Reconstitute with 1.0 ml distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative Stabilisers	0.09% Sodium Azide		
	1%	Bovine Serum Albumin	
	5%	Sucrose	
Immunogen	CD62P transfected 300.19 cells.		

**External Database
Links**

UniProt:

[P16109](#) [Related reagents](#)

Entrez Gene:

[6403](#) SELP [Related reagents](#)

Synonyms

GMRP, GRMP

Fusion Partners

Spleen cells from immunised CD62P knock-out mice (Strain C57/B6) were fused with cells of the NS-1 myeloma cell line.

Specificity

Mouse anti Human CD62P antibody, clone Psel.KO.2.12 recognizes the CD62P cell surface antigen, a ~140 kDa glycoprotein also known as P-selectin.

CD62P is expressed by activated platelets and endothelial cells, and plays an important role in adhesive processes between leucocytes and endothelial cells.

Mouse anti Human CD62P antibody, clone Psel.KO.2.12 inhibits P-selectin-dependent adhesion between HL60 cells and P-selectin transfected COS cells ([Massaguer et al. 2000](#)).

Flow Cytometry

Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.

References

1. Massaguer, A. *et al.* (2000) Production and characterization of monoclonal antibodies against conserved epitopes of P-selectin (CD62P). [Tissue Antigens. 56 \(2\): 117-28.](#)
2. Massaguer, A. *et al.* (2003) Characterization of platelet and soluble-porcine P-selectin (CD62P). [Vet Immunol Immunopathol. 96 \(3-4\): 169-81.](#)
3. Massaguer, A. *et al.* (2002) Reactivity of CD62P workshop mAbs with resting and activated platelets from different animal species. In: Leucocyte Typing VII. Edited by Mason, D. et al. Oxford University Press, pp 342-3.
4. Major, T.C. *et al.* (2010) The attenuation of platelet and monocyte activation in a rabbit model of extracorporeal circulation by a nitric oxide releasing polymer. [Biomaterials. 31: 2736-45.](#)
5. Johnson, C.A. Jr. *et al.* (2008) Flow cytometric assays for quantifying activated ovine platelets. [Artif Organs. 32: 136-45.](#)
6. Johnson, C.A. Jr. *et al.* (2011) Platelet activation in ovines undergoing sham surgery or implant of the second generation PediaFlow pediatric ventricular assist device. [Artif Organs. 35 \(6\): 602-13.](#)
7. Johnson, C.A. Jr. *et al.* (2011) Biocompatibility assessment of the first generation PediaFlow pediatric ventricular assist device. [Artif Organs. 35 \(1\): 9-21.](#)
8. Dasse, K.A. *et al.* (2007) Assessment of hydraulic performance and biocompatibility of a MagLev centrifugal pump system designed for pediatric cardiac or cardiopulmonary support. [ASAIO J. 53 \(6\): 771-7.](#)
9. Ding, J. *et al.* (2015) Quantification of Shear-Induced Platelet Activation: High Shear Stresses for Short Exposure Time. [Artif Organs. 39 \(7\): 576-83.](#)
10. Tran GT *et al.* (2010) Membrane attack complex of complement is not essential for immune mediated demyelination in experimental autoimmune neuritis. [J Neuroimmunol. 229 \(1-2\): 98-106.](#)
11. Foruzanmehr, M. *et al.* (2014) Nano-structure TiO₂ film coating on 316L stainless steel via sol-gel technique for blood compatibility improvement. [Nanomedicine Journal 1 \(3\): 128-36.](#)

Storage

Prior to reconstitution store at +4°C.

After reconstitution store at +4°C.

DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life	12 months from date of reconstitution.
Health And Safety Information	Material Safety Datasheet documentation #10075 available at: 10075: https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:RPE \(MCA928PE\)](#)

Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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