

## Datasheet: MCA2420A488

<b>Description:</b>	MOUSE ANTI HUMAN CD62P:Alexa Fluor® 488
<b>Specificity:</b>	CD62P
<b>Other names:</b>	P-SELECTIN
<b>Format:</b>	ALEXA FLUOR® 488
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	Psel.KO.2.12
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	100 TESTS/1ml

## 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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	■			Neat - 1/5

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.

<b>Target Species</b>	Human		
<b>Species Cross Reactivity</b>	Reacts with: Goat, Rat, Sheep <b>N.B.</b> Antibody reactivity and working conditions may vary between species.		
<b>Product Form</b>	Purified IgG conjugated to Alexa Fluor® 488 - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	Alexa Fluor®488	495	519
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.09% Sodium Azide		
<b>Stabilisers</b>	1% Bovine Serum Albumin		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.05 mg/ml		
<b>Immunogen</b>	CD62P transfected 300.19 cells.		

**External Database  
Links**

**UniProt:**

[P16109](#)   [Related reagents](#)

**Entrez Gene:**

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

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**Synonyms**

GMRP, GRMP

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**Fusion Partners**

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

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**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 ([Massaquer \*et al.\* 2000](#)).

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**Flow Cytometry**

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

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**References**

1. Massaquer, A. *et al.* (2000) Production and characterization of monoclonal antibodies against conserved epitopes of P-selectin (CD62P). [Tissue Antigens. 56 \(2\): 117-28.](#)
2. Massaquer, A. *et al.* (2003) Characterization of platelet and soluble-porcine P-selectin (CD62P). [Vet Immunol Immunopathol. 96 \(3-4\): 169-81.](#)
3. Massaquer, 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 TiO<sub>2</sub> film coating on 316L stainless steel via sol-gel technique for blood compatibility improvement. [Nanomedicine Journal 1 \(3\): 128-36.](#)

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**Storage**

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product

contain a precipitate we recommend microcentrifugation before use.

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**Shelf Life** 18 months from date of despatch.

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**Health And Safety Information** Material Safety Datasheet documentation #10041 available at: 10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 488 \(MCA928A488\)](#)

### Recommended Useful Reagents

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

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

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