

Datasheet: MCA2419A488

**BATCH NUMBER 159622**

<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.2.7
<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.

### Target Species

Human

### Species Cross Reactivity

Reacts with: Mouse, Horse, Bovine, Rat, Goat, Cat, Sheep

**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 conjugated to Alexa Fluor® 488 - liquid

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®488	495	519

### Preparation

Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide 1% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 0.05 mg/ml
<b>Immunogen</b>	P-selectin transfected 300.19 cells.
<b>External Database Links</b>	<p><b>UniProt:</b></p> <p><a href="#">P16109</a>      <a href="#">Related reagents</a></p> <p><a href="#">P42201</a>      <a href="#">Related reagents</a></p> <p><a href="#">P98106</a>      <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b></p> <p><a href="#">6403</a>      SELP      <a href="#">Related reagents</a></p> <p><a href="#">281486</a>      SELP      <a href="#">Related reagents</a></p> <p><a href="#">25651</a>      Selp      <a href="#">Related reagents</a></p>
<b>Synonyms</b>	GMRP, GRMP
<b>RRID</b>	AB_566869
<b>Fusion Partners</b>	Spleen cells from immunized CD62P knock-out mice (strain C57/B6) were fused with cells of the NS-1 myeloma cell line.
<b>Specificity</b>	<b>Mouse anti human CD62P, clone Psel.KO.2.7</b> , recognizes human P-Selectin. CD62P is a ~140 kDa surface antigen expressed by activated platelets and endothelial cells, and plays an important role in adhesive processes between leucocytes and endothelial cells.
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Massaguer, A. <i>et al.</i> (2002) Reactivity of CD62P workshop mAbs with resting and activated platelets from different animal species. In: Leucocyte Typing VII. Edited by Mason, D. <i>et al.</i> Oxford University Press, pp 342-3.</li> <li>2. Johnson, C.A. Jr <i>et al.</i> (2008) Flow cytometric assays for quantifying activated ovine platelets. <a href="#">Artif Organs. 32 (2): 136-45.</a></li> <li>3. Johnson, C.A. Jr <i>et al.</i> (2011) Biocompatibility assessment of the first generation PediaFlow pediatric ventricular assist device. <a href="#">Artif Organs. 35 (1): 9-21.</a></li> <li>4. Johnson, C.A. Jr <i>et al.</i> (2011) Platelet activation after implantation of the Levitronix PediVAS in the ovine model. <a href="#">ASAIO J. 57 (6): 516-21.</a></li> <li>5. Johnson, C.A. Jr. <i>et al.</i> (2011) Platelet activation in ovines undergoing sham surgery or implant of the second generation PediaFlow pediatric ventricular assist device. <a href="#">Artif Organs. 35 (6): 602-13.</a></li> <li>6. Shirasuna, K. <i>et al.</i> (2012) Rapid accumulation of polymorphonuclear neutrophils in the Corpus luteum during prostaglandin F(2<math>\alpha</math>)-induced luteolysis in the cow. <a href="#">PLoS One. 7:</a></li> </ol>

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8. Shankarraman, V. *et al.* (2014) Biocompatibility Assessment of the CentriMag-Novalung Adult ECMO Circuit in a Model of Acute Pulmonary Hypertension. [ASAIO J. 60 \(4\): 429-35.](#)
9. Iwaszko-Simonik, A. *et al.* (2015) Expression of surface platelet receptors (CD62P and CD41/61) in horses with recurrent airway obstruction (RAO). [Vet Immunol Immunopathol. 164 \(1-2\): 87-92.](#)
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11. Prat, N.J. *et al.* (2015) Low-Dose Heparin Anticoagulation During Extracorporeal Life Support for Acute Respiratory Distress Syndrome in Conscious Sheep. [Shock. 44 \(6\): 560-8.](#)
12. Acar, D.D. *et al.* (2016) Upregulation of endothelial cell adhesion molecules characterizes veins close to granulomatous infiltrates in the renal cortex of cats with feline infectious peritonitis and is indirectly triggered by feline infectious peritonitis virus-infected monocytes in vitro. [J Gen Virol. 97 \(10\): 2633-2642.](#)
13. ChanC, H.H. *et al.* (2017) Shear Stress-Induced Total Blood Trauma in Multiple Species. [Artif Organs. 41 \(10\): 934-947.](#)
14. Theuerkauf, K. *et al.* (2022) Activated platelets and platelet-leukocyte aggregates in the equine systemic inflammatory response syndrome. [J Vet Diagn Invest. 10406387221077969.](#)
15. Prat, N.J. *et al.* (2022) Regional blood acidification inhibits coagulation during extracorporeal carbon dioxide removal (ECCO(2) R). [Artif Organs. 46 \(6\): 1181-91.](#)

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**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. This product is photosensitive and should be protected from light.

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**Guarantee**

12 months from date of despatch

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**Acknowledgements**

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10041 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA2419A488>  
10041

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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 \(BUF070B\)](#)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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