

Datasheet: MCA2420A647

BATCH NUMBER 1701

Description:	MOUSE ANTI HUMAN CD62P:Alexa Fluor® 647
Specificity:	CD62P
Other names:	P-SELECTIN
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	Psel.KO.2.12
Isotype:	IgG1
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat - 1/2

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

Human

Species Cross Reactivity

Reacts with: Goat, Rat, 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 647 - liquid

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®647	650	665

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 (NaN ₃) 1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml
Immunogen	CD62P transfected 300.19 cells.
External Database Links	<p>UniProt: P16109 Related reagents</p> <p>Entrez Gene: 6403 SELP Related reagents</p>
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	<p>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.</p> <p>CD62P is expressed by activated platelets and endothelial cells, and plays an important role in adhesive processes between leucocytes and endothelial cells.</p> <p>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).</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul
References	<ol style="list-style-type: none"> 1. Massaguer, A. <i>et al.</i> (2000) Production and characterization of monoclonal antibodies against conserved epitopes of P-selectin (CD62P). Tissue Antigens. 56 (2): 117-28. 2. Massaguer, A. <i>et al.</i> (2003) Characterization of platelet and soluble-porcine P-selectin (CD62P). Vet Immunol Immunopathol. 96 (3-4): 169-81. 3. 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. 4. Major, T.C. <i>et al.</i> (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. <i>et al.</i> (2008) Flow cytometric assays for quantifying activated ovine platelets. Artif Organs. 32: 136-45. 6. 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. 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

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

Guarantee

12 months from date of despatch

Acknowledgements

This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchase product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad CA 92008 USA or outlicensing@thermofisher.com

Health And Safety Information

Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2420A647>
10041

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA928A647\)](#)

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

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: 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

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

'M366881:200529'

Printed on 21 Feb 2024

© 2024 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)