

## Datasheet: MCA796PB

<b>Description:</b>	MOUSE ANTI HUMAN CD62P:Pacific Blue®
<b>Specificity:</b>	CD62P
<b>Other names:</b>	P-SELECTIN
<b>Format:</b>	Pacific Blue®
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AK-6
<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

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: Rhesus Monkey

**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 Pacific Blue - liquid

#### Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
Pacific Blue®	410	455

#### Preparation

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

#### Buffer Solution

Phosphate buffered saline

<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> ) 1% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 0.05 mg/ml
<b>Immunogen</b>	Human platelet membrane glycoproteins.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P16109</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">6403</a>    SELP    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	GMRP, GRMP
<b>Specificity</b>	<p><b>Mouse anti Human CD62P antibody, clone AK-6</b> recognizes the CD62P, also known as P-selectin, Granule membrane protein 140, GMP140, Leukocyte-endothelial cell adhesion molecule 3 or Platelet activation dependent granule-external membrane protein. CD62P is a 830 amino acid, including a 41 amino acid signal peptide, ~140 kDa single pass type I transmembrane glycoprotein expressed on activated platelets and endothelial cell</p> <p>CD62P plays an important role in adhesive processes between leucocytes and endothelial cells. CD62P is a component of the platelet alpha granule and is rapidly translocated to the plasma membrane upon activation (<a href="#">Stenberg <i>et al.</i> 1985</a>).</p>
<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>Dunlop, L.C. <i>et al.</i> (1992) Characterization of GMP-140 (P-selectin) as a circulating plasma protein. <a href="#">J Exp Med. 175 (4): 1147-50.</a></li> <li>Skinner, M.P. <i>et al.</i> (1989) Characterization of human platelet GMP-140 as a heparin-binding protein. <a href="#">Biochem Biophys Res Commun. 164 (3): 1373-9.</a></li> <li>Skinner, M.P. <i>et al.</i> (1991) GMP-140 binding to neutrophils is inhibited by sulfated glycans. <a href="#">J Biol Chem. 266 (9): 5371-4.</a></li> <li>Sopper, S. <i>et al.</i> (1997) Lymphocyte subsets and expression of differentiation markers in blood and lymphoid organs of rhesus monkeys. <a href="#">Cytometry. 29 (4): 351-62.</a></li> <li>Bevilacqua, M.P. &amp; Nelson, R.M. (1993) Selectins. <a href="#">J Clin Invest. 91 (2): 379-87.</a></li> <li>Roos-Engstrand, E. <i>et al.</i> (2005) Increased expression of p38 MAPK in human bronchial epithelium after lipopolysaccharide exposure. <a href="#">Eur Respir J. 25 (5): 797-803.</a></li> <li>Kornerup, K.N. <i>et al.</i> (2010) Circulating platelet-neutrophil complexes are important for subsequent neutrophil activation and migration. <a href="#">J Appl Physiol. 109: 758-67.</a></li> <li>Norling, L.V. <i>et al.</i> (2008) Inhibitory control of endothelial galectin-1 on in vitro and in vivo lymphocyte trafficking. <a href="#">FASEB J. 22: 682-90.</a></li> <li>Dalli, J. <i>et al.</i> (2008) Annexin 1 mediates the rapid anti-inflammatory effects of neutrophil-derived microparticles. <a href="#">Blood. 112 (6): 2512-9.</a></li> <li>Wassmer, S.C. <i>et al.</i> (2008) Platelet-induced clumping of Plasmodium falciparum-infected erythrocytes from Malawian patients with cerebral malaria-possible modulation in</li> </ol>

- vivo by thrombocytopenia. [J Infect Dis. 197: 72-8.](#)
11. Theoret, J.F. *et al.* (2001) P-selectin antagonism with recombinant p-selectin glycoprotein ligand-1 (rPSGL-Ig) inhibits circulating activated platelet binding to neutrophils induced by damaged arterial surfaces. [J Pharmacol Exp Ther. 298: 658-64](#)
  12. Turner, C.P. *et al.* (2003) The role of P-selectin in the immune destruction of platelets. [Br J Haematol. 121: 623-31.](#)
  13. van Nispen tot Pannerden, H. *et al.* (2010) The platelet interior revisited: electron tomography reveals tubular alpha-granule subtypes. [Blood. 116: 1147-56.](#)
  14. Knipe, L. *et al.* (2010) A revised model for the secretion of tPA and cytokines from cultured endothelial cells. [Blood. 116 \(12\): 2183-91.](#)
  15. Kitaya, K. & Yasuo, T. (2010) Aberrant expression of selectin E, CXCL1, and CXCL13 in chronic endometritis. [Mod Pathol. 23 \(8\): 1136-46.](#)
  16. Xiong, G.M. *et al.* (2015) Imparting electroactivity to polycaprolactone fibers with heparin-doped polypyrrole: Modulation of hemocompatibility and inflammatory responses. [Acta Biomater. 23: 240-9.](#)
  17. Liao, Y. *et al.* (2017) Tailoring of TiO<sub>2</sub> films by H<sub>2</sub>SO<sub>4</sub> treatment and UV irradiation to improve anticoagulant ability and endothelial cell compatibility. [Colloids Surf B Biointerfaces. 155: 314-22.](#)
  18. Christersson, C. *et al.* (2013) Evaluation of microparticles in whole blood by multicolour flow cytometry assay. [Scand J Clin Lab Invest. 73\(3\): 229-39.](#)
  19. Tardy-Poncet, B. *et al.* (2021) Functional Flow Cytometric Assay for Reliable and Convenient Heparin-Induced Thrombocytopenia Diagnosis in Daily Practice [Biomedicines. 9 \(4\): 332.](#)
  20. Cipok, M. *et al.* (2019) Pathogenic heparin-induced thrombocytopenia and thrombosis (HIT) antibodies determined by rapid functional flow cytometry. [Eur J Haematol. 103 \(3\): 225-233.](#)
  21. Jiang, T. *et al.* (2019) Hyaluronic Acid Nanoparticle Composite Films Confer Favorable Time-Dependent Biofunctions for Vascular Wound Healing. [ACS Biomater Sci Eng. 5 \(4\): 1833-48.](#)

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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:  
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:Pacific Blue® \(MCA928PB\)](#)

### 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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'M384816:210513'

**Printed on 21 Mar 2022**

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