

Datasheet: MCA796PE

Description:	MOUSE ANTI HUMAN CD62P:RPE
Specificity:	CD62P
Other names:	P-SELECTIN
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	AK-6
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: Rhesus Monkey 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 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 G from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative Stabilisers	0.09% Sodium Azide		
	1%	Bovine Serum Albumin	
	5%	Sucrose	
Immunogen	Human platelet membrane glycoproteins.		

**External Database
Links**

UniProt:

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

Entrez Gene:

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

Synonyms

GMRP, GRMP

Specificity

Mouse anti Human CD62P antibody, clone AK-6 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

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 ([Stenberg *et al.* 1985](#)).

Flow Cytometry

Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.

References

1. Dunlop, L.C. *et al.* (1992) Characterization of GMP-140 (P-selectin) as a circulating plasma protein. [J Exp Med. 175 \(4\): 1147-50.](#)
2. Skinner, M.P. *et al.* (1989) Characterization of human platelet GMP-140 as a heparin-binding protein. [Biochem Biophys Res Commun. 164 \(3\): 1373-9.](#)
3. Skinner, M.P. *et al.* (1991) GMP-140 binding to neutrophils is inhibited by sulfated glycans. [J Biol Chem. 266 \(9\): 5371-4.](#)
4. Sopper, S. *et al.* (1997) Lymphocyte subsets and expression of differentiation markers in blood and lymphoid organs of rhesus monkeys. [Cytometry. 29 \(4\): 351-62.](#)
5. Bevilacqua, M.P. & Nelson, R.M. (1993) Selectins. [J Clin Invest. 91 \(2\): 379-87.](#)
6. Roos-Engstrand, E. *et al.* (2005) Increased expression of p38 MAPK in human bronchial epithelium after lipopolysaccharide exposure. [Eur Respir J. 25 \(5\): 797-803.](#)
7. Kornerup, K.N. *et al.* (2010) Circulating platelet-neutrophil complexes are important for subsequent neutrophil activation and migration. [J Appl Physiol. 109: 758-67.](#)
8. Norling, L.V. *et al.* (2008) Inhibitory control of endothelial galectin-1 on in vitro and in vivo lymphocyte trafficking. [FASEB J. 22: 682-90.](#)
9. Dalli, J. *et al.* (2008) Annexin 1 mediates the rapid anti-inflammatory effects of neutrophil-derived microparticles. [Blood. 112 \(6\): 2512-9.](#)
10. Wassmer, S.C. *et al.* (2008) Platelet-induced clumping of Plasmodium falciparum-infected erythrocytes from Malawian patients with cerebral malaria-possible modulation in 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 TiO₂ films by H₂SO₄ treatment and UV irradiation to improve anticoagulant ability and endothelial cell compatibility. [Colloids Surf B Biointerfaces. 155: 314-22.](#)

Storage	Prior to reconstitution store at +4°C. Following 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 \(BUF070B\)](#)

North & South America Tel: +1 800 265 7376
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

'M306419:170608'

Printed on 17 May 2018