

Datasheet: MCA796PE

Description:	MOUSE ANTI HUMAN CD62P:RPE
Specificity:	CD62P
Other names:	P-SELECTIN
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	AK-6
Isotype:	lgG1
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	Reacts with: Rhesu	ıs Monkey				
Reactivity	N.B. Antibody react	tivity and working condit	ons may vary between species. Cro	SS		
	•	· ·	aboratories, peer-reviewed publication			
	personal communic	cations from the originate	ors. Please refer to references indica	ated		
	further information.					
Product Form	Purified IgG conjug	ated 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 A from tissue culture					
	supernatant	ca by anning officinatog	raphy of the total for the till assure suital			

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
RRID	AB_1125276
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 10 ⁶ cells in 100ul.
References	 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. Skinner, M.P. et al. (1991) GMP-140 binding to neutrophils is inhibited by sulfated glycans. J Biol Chem. 266 (9): 5371-4. Dunlop, L.C. et al. (1992) Characterization of GMP-140 (P-selectin) as a circulating plasma protein. J Exp Med. 175 (4): 1147-50. 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 Turner, C.P. et al. (2003) The role of P-selectin in the immune destruction of platelets. Br J Haematol. 121: 623-31. 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. 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. Dalli, J. et al. (2008) Annexin 1 mediates the rapid anti-inflammatory effects of neutrophil-derived microparticles. Blood. 112 (6): 2512-9.

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- 10. Kornerup, K.N. *et al.* (2010) Circulating platelet-neutrophil complexes are important for subsequent neutrophil activation and migration. <u>J Appl Physiol. 109: 758-67.</u>
- 11. van Nispen tot Pannerden, H. *et al.* (2010) The platelet interior revisited: electron tomography reveals tubular alpha-granule subtypes. <u>Blood</u>. 116: 1147-56.
- 12. Knipe, L. *et al.* (2010) A revised model for the secretion of tPA and cytokines from cultured endothelial cells. <u>Blood. 116 (12): 2183-91.</u>
- 13. Kitaya, K. & Yasuo, T. (2010) Aberrant expression of selectin E, CXCL1, and CXCL13 in chronic endometritis. Mod Pathol. 23 (8): 1136-46.
- 14. 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.
- 15. Xiong, G.M. *et al.* (2015) Imparting electroactivity to polycaprolactone fibers with heparin-doped polypyrrole: Modulation of hemocompatibility and inflammatory responses. <u>Acta Biomater. 23: 240-9.</u>
- 16. Liao, Y. *et al.* (2017) Tailoring of TiO₂ films by H₂SO₄ treatment and UV irradiation to improve anticoagulant ability and endothelial cell compatibility. <u>Colloids Surf B</u> Biointerfaces. 155: 314-22.
- 17. Cipok, M. *et al.* (2019) Pathogenic heparin-induced thrombocytopenia and thrombosis (HIT) antibodies determined by rapid functional flow cytometry. <u>Eur J Haematol</u>. 103 (3): 225-233.
- 18. Jiang, T. *et al.* (2019) Hyaluronic Acid Nanoparticle Composite Films Confer Favorable Time-Dependent Biofunctions for Vascular Wound Healing. <u>ACS Biomater Sci Eng. 5 (4):</u> 1833-48.
- 19. Tardy-Poncet, B. *et al.* (2021) Functional Flow Cytometric Assay for Reliable and Convenient Heparin-Induced Thrombocytopenia Diagnosis in Daily Practice <u>Biomedicines.</u> 9 (4): 332.

Further Reading

1. Bevilacqua, M.P. & Nelson, R.M. (1993) Selectins. J Clin Invest. 91 (2): 379-87.

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.

Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA796PE 20487
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
 Tel: +1 800 265 7376
 Worldwide
 Tel: +44 (0)1865 852 700
 Europe
 Tel: +49 (0) 89 8090 95 21

 America
 Fax: +1 919 878 3751
 Fax: +44 (0)1865 852 739
 Fax: +49 (0) 89 8090 95 50

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M419662:230616'

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