

Datasheet: MCA796

Description:	MOUSE ANTI HUMAN CD62P
Specificity:	CD62P
Other names:	P-SELECTIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AK-6
Isotype:	IgG1
Quantity:	0.2 mg

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	■			1/10 - 1/100
Immunohistology - Frozen	■			1/1000 - 1/5000
Immunohistology - Paraffin	■			1/500 - 1/2000
ELISA			■	
Immunoprecipitation			■	
Western Blotting	■			
Immunofluorescence	■			

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 - liquid
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
Carrier Free	Yes
Approx. Protein	IgG concentration 1.0 mg/ml

Concentrations

Immunogen	Human platelet membrane glycoproteins.
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External Database Links

UniProt:

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

Entrez Gene:

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

Synonyms	GMRP, GRMP
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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.
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Immunohistology	This product does not require antigen retrieval using heat treatment prior to staining of paraffin sections but staining may be enhanced using Sodium Citrate buffer pH6.0
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Histology Positive Control Tissue

Tonsil

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

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

Health And Safety Information

Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG1 (HCA036...)	HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

'M316314:180503'

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