

**Product Data Sheet**

**Mouse Anti-Human CD62P (P-Selectin)-PE/Cy5 conjugate**

Catalog#	CD62PPC-25	Size	25 tests
----------	------------	------	----------

Antigen: CD62P  
 Antibody Host/type: Mouse, IgG1k  
 Product Forms: Purified, PE/Cy5 conjugation.  
 Reactivity: Human, Cross-Reactivity\*: other species not tested  
 Distribution: Activated platelets, megakaryocytes, endothelial cells  
 Function: Adhesion, neutrophil rolling, platelet-neutrophil and platelet-monocyte interactions  
 Ligand Receptor: CD162 (PSGL-1), CD24 and sialylated Lewis x

**DESCRIPTION**

CD62P (P-selectin, GMP-140, PADGEM) is a 140 kD type I transmembrane glycoprotein also known as P-Selectin, platelet activation-dependent granule membrane protein (PADGEM), or GMP-140. It is expressed on activated platelets, megakaryocytes, and endothelial cells. CD62 is primarily stored in secretory  $\alpha$ -granules in platelets and Weibel-Palade bodies in endothelial cells and is rapidly relocated to the plasma membrane upon activation. The ligands for CD62P are CD162 and CD24. A primary function of CD62P is cell adhesion during neutrophil rolling, platelet-neutrophil, and platelet-monocyte interactions

Antibody reacts with the 140 kDa membrane glycoprotein, P-Selectin, formerly known as platelet activation-dependent granule membrane protein (PADGEM), or GMP-140. P-Selectin is stored in the  $\alpha$ -granules of platelets and the Weibel-Palade bodies of endothelial cells, and is rapidly transported to the plasma membrane upon activation. P-Selectin is thought to mediate the initial adhesive interactions of neutrophils and monocytes with endothelium in inflammatory responses, and of activated platelets to neutrophils and monocytes in hemostasis.

**PREPARATION**

The monoclonal antibody is purified from ascites by protein G affinity chromatography and is conjugated with, R-PE/Cy5 under optimum conditions. It is supplied in PBS, pH 7.5, 0.1% BSA, and 0.05% azide.

**USAGE**

Flow cytometry: The purified reagent is effective for indirect immunofluorescence staining of human cells for flow cytometric analysis. The conjugated reagent (R-PE/Cy5) is tested for flow cytometric analysis using 20 ul/10<sup>6</sup> cells or 100 $\mu$ l peripheral blood cells. It may be recommended to use more antibody (40 ul/10<sup>6</sup> cells) for better sensitivity or in cells with low concn of antigen.

PE-Cy5 is optimized for use with a single argon ion laser emitting 488-nm light. Because of the broad absorption spectrum of the PE-Cy5 tandem fluorochrome, extra care must be taken when using dual-laser cytometers which may directly excite both PE and Cy5™. Cy™ is a trademark of Amersham Biosciences Limited.

**Suggested matching isotype negative controls**

#20102-101-PC5, Mouse IgG1-PE-Cy5 conjugate (isotype control), 50 Tests

**STORAGE**

For conjugated forms, storage at 4oC, should not be frozen and avoid prolonged exposure to light.

Refs: McEver R (1995) JBC 270, 11025; Varki A (1994) PNAS 91, 7390

This product is for in vitro research use only.

CD62PPC-25	101110A
------------	---------

Alpha Diagnostic Intl Inc., 6203 Woodlake Center Dr, S an Antonio, T X 7 8 24 4 , U S A;

**India Contact:**

**Life Technologies (India) Pvt. Ltd.**

306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400  
 Fax: +91-11-42208444 Email: [customerservice@lifetechindia.com](mailto:customerservice@lifetechindia.com) Website: [www.lifetechindia.com](http://www.lifetechindia.com)