

## Monoclonal antibody against human CD62P PE conjugated

Product Nos. ADG5066 and ADG5066L

### Description

**CD62P** (P-selectin) is an adhesion glycoprotein that is expressed on platelets and endothelial cells upon their activation. Interaction between CD62P and its mucin-like ligand PSGL-1 (P-selectin glycoprotein ligand-1) expressed on the microvilli of most leukocytes supports leukocyte rolling along postcapillary venules at the earliest time of inflammation. Both CD62P and PSGL-1 are extended glycoproteins that form homodimers. CD62P dimerization is probably mediated through interactions of the transmembrane domains and stabilizes leukocyte tethering and rolling, probably by increasing rebinding within a bond cluster.

### Properties

The monoclonal antibody ADG5066/L (clone HI62P) is a murine monoclonal antibody, subclass IgG<sub>1</sub>. The antibody has been purified from ascites using protein-G affinity chromatography, Purity > 95% (by SDS-PAGE).

The antibody recognizes a 140 kDa long single chain type I transmembrane glycoprotein, P-selectin, also called Granule membrane protein-140 (GMP-140) or platelet activation dependent granule external membrane protein (PADGEM). CD62P antigen is present in the  $\alpha$ -granules of platelets and in Weibel-Palade bodies of endothelial cells, and is rapidly mobilized from storage granules to the cell surface after cell activation. So, CD62P is expressed on the surface of the activated platelets. Interaction of CD62P with PSGL-1 (CD162) mediates tethering and rolling of leukocytes on the surface of activated endothelial cells, the first step in leukocyte extravasation and migration towards sites of inflammation. It also mediates rolling of platelets on endothelial cells and CD62P-mediated interactions are also involved in platelet-mediated delivery of lymphocytes to high endothelial venules (HEV).

### Distributed by:

**LOXO** GMBH  
IMMUNOLOGIE • MOLEKULARBIOLOGIE  
BIOCHEMIE • PRODUKTE UND SYSTEME

Gerhart-Hauptmann-Str. 48  
69221 Dossenheim  
Tel +49 6221 868023  
Fax +49 6221 8680255  
www.loxo.de - info@lox.de

### Conjugation

The purified antibody is conjugated with R-Phycoerythrin (R-PE) under optimum conditions. The reagent is adjusted for direct use. No reconstitution is necessary.

### Presentation

Vial containing 500  $\mu$ l (ADG5066) or 2 ml (ADG5066L) of purified antibody in PBS containing 1% BSA and 0.09% sodium azide (pH 7.2). The IgG concentration is 1 mg/ml. Spin the vial briefly before opening.

### Storage and Stability

Store the antibody at 4°C. Avoid prolonged exposure to light. The reagent is stable until the expiry date stated on the vial label.

### Applications

Flow Cytometry

### References

Ramachandran V, Williams M, Yago T, Schmidtke DW, McEver RP: Dynamic alterations of membrane tethers stabilize leukocyte rolling on P-selectin. Proc Natl Acad Sci U S A. 2004 Sep 14;101(37):13519-24.

Martinez M, Joffraud M, Giraud S, Ba&iuml;lse B, Bernimoulin MP, Schapira M, Spertini O: Regulation of PSGL-1 interactions with L-selectin, P-selectin, and E-selectin: role of human fucosyltransferase-IV and -VII. J Biol Chem. 2005 Feb 18;280(7):5378-90.

Harakawa N, Shigeta A, Wato M, Merrill-Skoloff G, Furie BC, Furie B, Okazaki T, Domae N, Miyasaka M, Hirata T. P-selectin glycoprotein ligand-1 mediates L-selectin-independent leukocyte rolling in high endothelial venules of peripheral lymph nodes. Int Immunol. 2007 Mar;19(3):321-9.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmBioMed will not be held responsible for patent infringement or other violations that may occur with the use of our products.

ADG5066/L©26072019

#### Hinweis/Note:

Der Packungsbeileger dient nur als erste Information. Der relevante Packungsbeileger liegt der Ware bei.

The datasheet is for information purposes only. The current datasheet will be enclosed with product shipment.