

# Product Data Sheet

## Alexa Fluor® 488 anti-human CD62P (P-Selectin)

**Catalog # / Size:** 304916 / 100 tests

**Clone:** AK4

**Isotype:** Mouse IgG1,  $\kappa$

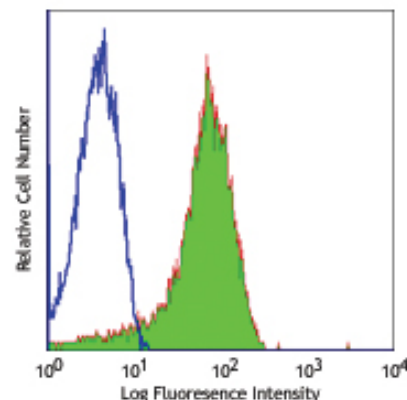
**Workshop Number:** VI P-44

**Reactivity:** Human, **Cross-Reactivity:** Chimpanzee

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 488 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 488.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

**Storage:** The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Thrombin-activated human peripheral blood platelets stained with AK4 Alexa Fluor® 488

## Applications:

**Applications:** FC - Quality tested

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is 5  $\mu$ l per million cells or 5  $\mu$ l per 100  $\mu$ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

\* Alexa Fluor® 488 has a maximum emission of 519 nm when it is excited at 488 nm.

\*\* Alexa Fluor® is a registered trademark of Molecular Probes, Inc. Alexa Fluor® dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and high content screening, and are covered by pending and issued patents.

**Application Notes:** Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections, and *in vitro* blocking of adhesion of platelets<sup>1</sup>. The LEAF™ Purified antibody (Endotoxin <0.1 EU/ $\mu$ g, Azide-Free, 0.2  $\mu$ m filtered) is recommended for functional assays (Cat. No. 304912).

**Application References:** 1. Skinner M, *et al.* 1991. *J. Biol. Chem.* 266:5371. (Block)  
 2. Kishimoto T, *et al.* Eds. 1997. *Leucocyte Typing VI*. Garland Publishing Inc. London.  
 3. Yen Y-T, *et al.* 2006. *J. Virol.* 80:2684.

**Description:** CD62P 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.

**Antigen References:** 1. McEver R, *et al.* 1995. *J. Biol. Chem.* 270:11025.  
 2. Varki A. 1994. *P. Natl. Acad. Sci. USA* 91:7390.

### Related Products:

**Product**  
 Cell Staining Buffer  
 RBC Lysis Buffer (10X)  
 Alexa Fluor® 488 Mouse IgG1,  $\kappa$  Isotype Ctrl (FC)  
 Human TruStain FcX™ (Fc Receptor Blocking Solution)

### Clone

MOPC-21

### Application

FC, ICC, ICFC  
 FC, ICFC  
 FC, IF  
 FC, ICC, ICFC



For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.



\*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, [www.biollegend.com/ordering#license](http://www.biollegend.com/ordering#license)). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.