

## PE anti-mouse/rat CD62P (P-selectin) Antibody

<b>Catalog# / Size</b>	148305 / 25 µg 148306 / 100 µg
<b>Clone</b>	RMP-1
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	GMP-140, Platelet activation-dependent granule membrane protein (PADGEM)
<b>Isotype</b>	Mouse IgG2a, κ
<b>Description</b>	CD62P is a 140 kD type I transmembrane glycoprotein, also known as P-selectin, platelet activation-dependent granule membrane protein (PADGEM), and GMP-140. It is expressed on activated platelets, megakaryocytes, and endothelial cells. CD62P is primarily stored in secretory α-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, and platelet-neutrophil and platelet-monocyte interactions.

### Product Details

<b>Verified Reactivity</b>	Mouse, Rat
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Thrombin activated rat platelets
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions.
<b>Concentration</b>	0.2 mg/ml
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric staining, the suggested use of this reagent is ≤0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Excitation Laser</b>	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
<b>Application Notes</b>	Additional reported applications (for the relevant formats) include: immunofluorescence <sup>6</sup> , immunohistochemistry <sup>5</sup> , ELISA <sup>7</sup> , Western blotting <sup>4</sup> , immunoprecipitation <sup>4</sup> , and blocking in rats <sup>1,2</sup> and mice <sup>3</sup> .
<b>Application References</b>	<ol style="list-style-type: none"> <li>1. Walter UM, <i>et al.</i> 1997. <i>Immunology</i>. 92:290. (Block-rats)</li> <li>2. Johnston B, <i>et al.</i> 1997. <i>J. Immunol.</i> 159:4514. (Block-rats)</li> <li>3. Hickey MJ, <i>et al.</i> 1998. <i>Circ. Res.</i> 83:1124. (Block-mice)</li> <li>4. Walter UM, <i>et al.</i> 1997. <i>Hybridoma</i>. 16:249. (WB, IP)</li> <li>5. Alvarez A, <i>et al.</i> 2004. <i>Blood</i> 104:402. (IHC)</li> <li>6. Piccio L, <i>et al.</i> 2002. <i>J. Immunol.</i> 168:1940. (IF)</li> <li>7. Walter UM, <i>et al.</i> 1997. <i>Hybridoma</i>. 16:249. (ELISA)</li> </ol>
<b>Product Citations</b>	<ol style="list-style-type: none"> <li>1. Misumi I <i>et al.</i> 2019. <i>Cell Rep.</i> 27(5):1387-1396 . <a href="#">PubMed</a></li> <li>2. McPherson HR, <i>et al.</i> 2021. <i>Elife.</i> 10: . <a href="#">PubMed</a></li> <li>3. Li H, <i>et al.</i> 2021. <i>Nat Commun.</i> 12:2773. <a href="#">PubMed</a></li> </ol>

(PubMed link indicates BioLegend citation)

4. Pan N, *et al.* 2021. *Mar Drugs*. 20:.. [PubMed](#)
5. Hu Q, *et al.* 2018. *Nat Biomed Eng*. 0.660416667. [PubMed](#)
6. Pagan JD, *et al.* 2018. *Cell*. 172:564. [PubMed](#)
7. Zhao L, *et al.* 2017. *Nat Commun*. . 10.1038/s41467-017-01181-4. [PubMed](#)

**RRID** AB\_2565274 (BioLegend Cat. No. 148305)  
 AB\_2565275 (BioLegend Cat. No. 148306)

## Antigen Details

<b>Structure</b>	Type I transmembrane glycoprotein, 140 kD
<b>Distribution</b>	Activated platelets, megakaryocytes, endothelial cells
<b>Function</b>	Adhesion, neutrophil rolling, platelet-neutrophil and platelet-monocyte interactions
<b>Ligand/Receptor</b>	CD162 (PSGL-1), CD24 and sialylated Lewis X
<b>Cell Type</b>	Endothelial cells, Megakaryocytes, Platelets
<b>Biology Area</b>	Cell Adhesion, Cell Biology, Immunology, Innate Immunity, Neuroscience, Synaptic Biology
<b>Molecular Family</b>	Adhesion Molecules, CD Molecules
<b>Antigen References</b>	1. McEver R, <i>et al.</i> 1995. <i>J. Biol. Chem.</i> 270:11025. 2. Varki A. 1994. <i>Proc. Natl. Acad. Sci. USA</i> 91:7390.
<b>Gene ID</b>	<a href="#">20344</a> <a href="#">25651</a>

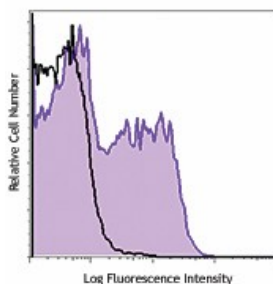
## Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

Purified anti-mouse/rat CD62P (P-selectin), APC anti-mouse/rat CD62P (P-selectin), PE anti-mouse/rat CD62P (P-selectin), Ultra-LEAF™ Purified anti-mouse/rat CD62P (P-selectin), PE/Cyanine7 anti-mouse/rat CD62P (P-selectin), TotalSeq™-C0229 anti-mouse/rat CD62P (P-selectin), TotalSeq™-B0229 anti-mouse/rat CD62P (P-selectin)

## Product Data



Thrombin-activated mouse platelets were stained with CD62P (clone RMP-1) PE (filled histogram) or mouse IgG2a, κ PE isotype control (open histogram).

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