

APC anti-mouse/rat CD62P (P-selectin) Antibody

Catalog# / Size	148303 / 25 µg 148304 / 100 µg
Clone	RMP-1
Regulatory Status	RUO
Other Names	GMP-140, Platelet activation-dependent granule membrane protein (PADGEM)
Isotype	Mouse IgG2a, κ
Description	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

Verified Reactivity	Mouse, Rat
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Thrombin activated rat platelets
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions.
Concentration	0.2 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . 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.
Excitation Laser	Red Laser (633 nm)
Application Notes	Additional reported applications (for the relevant formats) include: immunofluorescence ⁶ , immunohistochemistry ⁵ , ELISA ⁷ , Western blotting ⁴ , immunoprecipitation ⁴ , and blocking in rats ^{1,2} and mice ³ .
Application References	<ol style="list-style-type: none"> 1. Walter UM, <i>et al.</i> 1997. <i>Immunology</i>. 92:290. (Block-rats) 2. Johnston B, <i>et al.</i> 1997. <i>J. Immunol.</i> 159:4514. (Block-rats) 3. Hickey MJ, <i>et al.</i> 1998. <i>Circ. Res.</i> 83:1124. (Block-mice) 4. Walter UM, <i>et al.</i> 1997. <i>Hybridoma</i>. 16:249. (WB, IP) 5. Alvarez A, <i>et al.</i> 2004. <i>Blood</i> 104:402. (IHC) 6. Piccio L, <i>et al.</i> 2002. <i>J. Immunol.</i> 168:1940. (IF) 7. Walter UM, <i>et al.</i> 1997. <i>Hybridoma</i>. 16:249. (ELISA)
Product Citations	<ol style="list-style-type: none"> 1. Ngamsri KC, <i>et al.</i> 2021. <i>Int J Mol Sci.</i> 22: PubMed 2. Malladi N, <i>et al.</i> 2022. <i>J Diabetes Res.</i> 2021:6404438. PubMed 3. Nicolai L, <i>et al.</i> 2021. <i>Haematologica</i>. Online ahead of print. PubMed 4. Cornelius DC, <i>et al.</i> 2020. <i>PLoS One.</i> 15:e0234039. PubMed

RRID AB_2565272 (BioLegend Cat. No. 148303)
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Antigen Details

Structure	Type I transmembrane glycoprotein, 140 kD
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
Cell Type	Endothelial cells, Megakaryocytes, Platelets
Biology Area	Cell Adhesion, Cell Biology, Immunology, Innate Immunity, Neuroscience, Synaptic Biology
Molecular Family	Adhesion Molecules, CD Molecules
Antigen References	1. McEver R, et al. 1995. <i>J. Biol. Chem.</i> 270:11025. 2. Varki A. 1994. <i>Proc. Natl. Acad. Sci. USA</i> 91:7390.
Gene ID	20344 25651

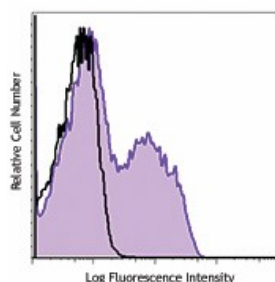
Related Protocols

[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) APC (filled histogram) or mouse IgG2a, κ APC isotype control (open histogram).

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