

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

Catalog# / Size	148301 / 50 µg 148302 / 500 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.
Concentration	0.5 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	FC - Quality tested ICC, IHC, WB, IP, ELISA - Reported in the literature, not verified in house
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 ≤ 1.0 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.
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. Scherlinger M, <i>et al.</i> 2021. <i>Sci Transl Med.</i> 13:. PubMed2. Lorsung RM, <i>et al.</i> 2020. <i>Front Bioeng Biotechnol.</i> 0.9375. PubMed3. Yeini E, <i>et al.</i> 2021. <i>Nat Commun.</i> 12:1912. PubMed4. Namachivayam K, <i>et al.</i> 2020. <i>Proc Natl Acad Sci U S A.</i> 117:10958. PubMed
RRID	AB_2564110 (BioLegend Cat. No. 148301)

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, <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.
Gene ID	20344 25651

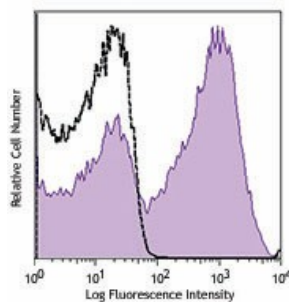
Related Protocols

[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), UltraLEAF™ 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 stimulated C57BL/6 mouse platelets were stained with purified CD62P (clone RMP-1) (filled histogram) or purified mouse IgG2a, κ isotype control (open histogram), followed by anti-mouse IgG PE.

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BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587

