

GMP PE anti-human CD62P (P-Selectin) Antibody

Catalog# / Size	260364 / 100 tests
Clone	AK4
Workshop	VI P-44
Other Names	GMP-140, PADGEM
Isotype	Mouse IgG1, 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

Reactivity	Human
Reported Reactivity	Chimpanzee
Antibody Type	Monoclonal
Host Species	Mouse
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA) and a stabilizer
Preparation	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions.
Concentration	100 µg/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 5 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections ⁴ and <i>in vitro</i> blocking of adhesion of platelets ¹ . The Ultra-LEAF™ purified antibody (Endotoxin < 0.01 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 304947 & 304948).
Application References	<ol style="list-style-type: none"> 1. Skinner M, <i>et al.</i> 1991. <i>J. Biol. Chem.</i> 266:5371. (Block) 2. Kishimoto T, <i>et al.</i> Eds. 1997. Leucocyte Typing VI. Garland Publishing Inc. London. 3. Yen YT, <i>et al.</i> 2006. <i>J. Virol.</i> 80:2684. 4. Sato Y, <i>et al.</i> 2005. <i>Blood</i> 106:428. (IHC)
(PubMed link indicates BioLegend citation)	
Disclaimer	<p>GMP RUO Flow Cytometry Antibodies. BioLegend GMP RUO fluorophore conjugated antibodies are manufactured in a dedicated GMP facility and compliant with ISO 13485:2016. For research use only. Not for use in diagnostic or therapeutic procedures. Our processes include:</p> <ul style="list-style-type: none"> • Batch-to-batch consistency • Material traceability

- Documented procedures
- Documented employee training
- Equipment maintenance and monitoring records
- Lot-specific certificates of analysis
- Quality audits per ISO 13485:2016
- QA review of released products

Antigen Details

Structure	Selectin, type I 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, Neutrophils, Platelets
Biology Area	Cell Adhesion, Cell Biology, Immunology, 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>P. Natl. Acad. Sci. USA</i> 91:7390.
Gene ID	6403

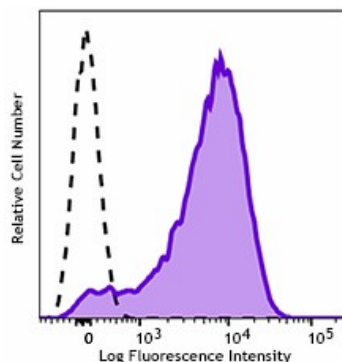
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

APC anti-human CD62P (P-Selectin), FITC anti-human CD62P (P-Selectin), PE anti-human CD62P (P-Selectin), PE/Cyanine5 anti-human CD62P (P-Selectin), Purified anti-human CD62P (P-Selectin), Biotin anti-human CD62P (P-Selectin), Alexa Fluor® 488 anti-human CD62P (P-Selectin), Alexa Fluor® 647 anti-human CD62P (P-Selectin), Brilliant Violet 605™ anti-human CD62P (P-Selectin), Brilliant Violet 421™ anti-human CD62P (P-Selectin), PE/Cyanine7 anti-human CD62P (P-Selectin), PerCP/Cyanine5.5 anti-human CD62P (P-Selectin), Alexa Fluor® 700 anti-human CD62P (P-Selectin), PE/Dazzle™ 594 anti-human CD62P (P-Selectin), APC/Fire™ 750 anti-human CD62P (P-Selectin), TotalSeq™-A0218 anti-human CD62P (P-Selectin), Brilliant Violet 650™ anti-human CD62P (P-Selectin), Brilliant Violet 510™ anti-human CD62P (P-Selectin), Brilliant Violet 711™ anti-human CD62P (P-Selectin), APC/Cyanine7 anti-human CD62P (P-Selectin), Brilliant Violet 785™ anti-human CD62P (P-Selectin), TotalSeq™-C0218 anti-human CD62P (P-Selectin), Ultra-LEAF™ Purified anti-human CD62P (P-Selectin), TotalSeq™-B0218 anti-human CD62P (P-Selectin) Antibody, TotalSeq™-D0218 anti-human CD62P (P-Selectin), PE anti-human CD62P, FITC anti-human CD62P

Product Data



Typical results from thrombin-activated human peripheral blood platelets stained either with AK4 PE used at 5 µL/test (filled histogram) or with an isotype control (open histogram).

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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