

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

Catalog# / Size	260362 / 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 FITC under optimal conditions.
Concentration	200 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)
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

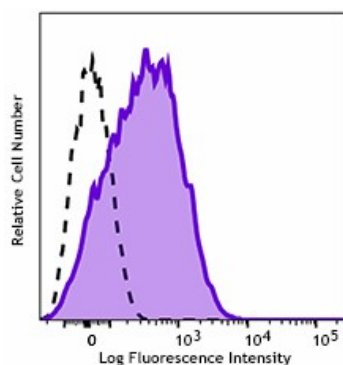
Related Protocols

[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 FITC used at 5 μ L/test (filled histogram) or with an isotype control (open histogram).

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