

AM26020PU-N**Monoclonal Antibody to CD62P / P-Selectin - Aff - Purified**

Alternate names:	CD62 antigen-like family member P, GMP-140, GMRP, GRMP, Granule membrane protein 140, LECAM3, Leukocyte-endothelial cell adhesion molecule 3, PADGEM, SELP
Quantity:	0.1 mg
Concentration:	1.0 mg/ml
Background:	CD62P (P-selectin) is an adhesion glycoprotein that is expressed on platelets and endothelial cells upon their activation. Interaction between CD62P and its mucin-like ligand PSGL-1 (P-selectin glycoprotein ligand-1) expressed on the microvilli of most leukocytes supports leukocyte rolling along postkapillary venules at the earliest time of inflammation. Both CD62P and PSGL-1 are extended glycoproteins that form homodimers. CD62P dimerization is probably mediated through interactions of the transmembrane domains and stabilizes leukocyte tethering and rolling, probably by increasing rebinding within a bond cluster.
Uniprot ID:	P16109
NCBI:	NP_002996.2
GeneID:	6403
Host / Isotype:	Mouse / IgG1
Clone:	AK4
Immunogen:	Human platelets
Format:	State: Liquid Ig fraction Purification: Protein-A affinity chromatography Buffer System: Phosphate buffered saline (PBS) Preservatives: 15 mM sodium azide, approx. pH 7.4
Applications:	Flow cytometry: 1.5 µg/ml. Immunoprecipitation. Western blot. Immunocytochemistry. Functional application: Blocking. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognizes CD62P (P-selectin), a 140 kD single chain type I transmembrane glycoprotein present in secretory alpha-granules in platelets, in Weibel-Palade bodies in endothelial cells and in megakaryocytes; it is relocated to the plasma membrane upon activation.
Species Reactivity:	Tested: Human, Non-Human Primates
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings:

1. Dunlop LC, Skinner MP, Bendall LJ, Favalaro EJ, Castaldi PA, Gorman JJ, et al. Characterization of GMP-140 (P-selectin) as a circulating plasma protein. *J Exp Med*. 1992 Apr 1;175(4):1147-50. PubMed PMID: 1372646.
2. Holme PA, Müller F, Solum NO, Brosstad F, Frøland SS, Aukrust P. Enhanced activation of platelets with abnormal release of RANTES in human immunodeficiency virus type 1 infection. *FASEB J*. 1998 Jan;12(1):79-89. PubMed PMID: 9438413.
3. Kowalska MA, Ratajczak J, Hoxie J, Brass LF, Gewirtz A, Poncz M, et al. Megakaryocyte precursors, megakaryocytes and platelets express the HIV co-receptor CXCR4 on their surface: determination of response to stromal-derived factor-1 by megakaryocytes and platelets. *Br J Haematol*. 1999 Feb;104(2):220-9. PubMed PMID: 10050701.
4. Ludwig RJ, Schultz JE, Boehncke WH, Podda M, Tandl C, Krombach F, et al. Activated, not resting, platelets increase leukocyte rolling in murine skin utilizing a distinct set of adhesion molecules. *J Invest Dermatol*. 2004 Mar;122(3):830-6. PubMed PMID: 15086572.