

## MONOCLONAL ANTIBODY CD62P

Cat. No.	Form	Quantity	Presentation
0767	Purified	100 tests	Liquid 2 ml
1164	FITC	100 tests	Liquid 2 ml
1315	Purified	0.2 mg	Freeze-dried
1759	Phycoerythrin	100 tests	Liquid 2 ml

<b>Clone</b>	CLB-Thromb/6
<b>Isotype</b>	IgG1 (mouse).
<b>Immunogen</b>	Human platelets
<b>Hybridoma</b>	Myeloma SP2/0 Ag14 x mouse Balb/c x A/J spleen cells
<b>Specificity</b>	<p>CD62P (P-selectin) is a 140 kDa glycoprotein which contains an amino terminal lectin like domain, followed by an EGF domain, nine short consensus repeats (SCR), a transmembrane domain and a short cytoplasmic domain. P-selectin shares considerable amino acid sequence homology with E- and L-selectin (1).</p> <p>P-selectin is contained within the <math>\alpha</math>-granules of circulating resting platelets and endothelial cells. CD62P is translocated to the surface membrane upon in vitro and in vivo activation. It is also expressed by the megakaryocytes.</p> <p>CLB-Thromb/6 recognizes the boundary region between the lectin and EGF-like domains (1)</p> <p>CD62P also called GMP-140 or PADGEM protein (platelet activation antigen P-selectin) plays a critical role in the interaction between platelets and both monocytes and neutrophils (2)</p>
<b>Applications</b>	<p>Studies and detection of activated platelets.</p> <p>Studies of the functional roles of the various domains of selectin molecules</p>
<b>Buffer</b>	<p>Freeze-dried forms: 1 mg/ml bovine serum albumin in phosphate buffered saline.</p> <p>Liquid forms: 2 mg/ml bovine serum albumin in phosphate buffered saline containing 0.1% sodium azide</p>
<b>Reconstitution and Storage</b>	<p>The freeze-dried form may be stored at 2-8°C until the expiration date. Reconstitute with 1 ml of distilled water. No preservative has been added. The reconstituted form may be stored at -20°C until the expiration date. Aliquoting is suggested to avoid multiple freeze-thaw cycles. The addition of sodium azide at 0.1% (w/v) is recommended for storage of the reconstituted form for up to one month at 2-8°C</p> <p>The purified liquid form should be stored at 2 - 8°C.</p>

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FOR RESEARCH USE ONLY - NOT FOR USE IN DIAGNOSTIC PROCEDURES


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The conjugated forms should not be frozen and should be stored in the dark at 2 - 8°C.

**Recommended Procedures** Fluorescent microscopy or flow cytometry:  
Liquid form: 20  $\mu$ l/5x10<sup>6</sup> platelets/test.  
Freeze-dried form: 2  $\mu$ g/5x10<sup>6</sup>platelets/test

- References**
- 1) Saunders, K B., Kansas, G.S., Tedder, T.F , "Domain mapping of the selectin panel of mAb", 1993, Tissue Antigens, **42**, (4), 294.
  - 2) de Bruijne-Admiral, L.G., Modderman, P.W., Von dem Borne, A.E.G.Kr., Sonnenberg, A., "P-Selectin mediates Ca<sup>++</sup>-dependent adhesion of activated platelets to many different types of leukocytes: detection by flow cytometry" 1992, Blood, **80**, (1), 134-142
  - 3) Metzelaar, M.J., Sixma, J.J., Nieuwenhuis, H.K., "Activation-dependent mAb recognizing a 140 kDa platelet  $\alpha$ -granule membrane protein, expressed after activation" in Leucocyte Typing IV, 1990, W. Knapp Editor, Oxford University Press.
  - 4) McEver, R.P., "Properties of GMP-140, an inducible granule membrane protein of platelets and endothelium", 1990, Blood Cells, **16**, 73-83.
- CLB-Thromb/6 antibody has been assigned to the CD62 cluster of differentiation at the fourth International Workshop on Human Leukocyte Differentiation Antigens in Vienna (1989)
- CLB-Thromb/6 has been studied at the fifth International Workshop on Human Leukocyte Differentiation Antigens in Boston (1993)