

**# M130-1****Product Information**

Catalog Number: M130-1  
Clone / Isotype: Wug.E9 / Rat (Wistar) IgG1  
Contents: FITC-labeled immunoglobulin in 20 mM Tris buffer with 137 mM NaCl, 0.5% BSA and 0.09% (w/v) sodium azide  
Size: 1.5 ml / 300 tests

**For research use only, not for diagnostic or therapeutic use. This product is no medical device.**

**Specificity:** The Wug.E9 antibody reacts with mouse P-selectin (CD62P, PADGEM, GMP-140), a 140-kDa single-chain polypeptide belonging to the selectin family of adhesion molecules<sup>1</sup>. P-selectin is expressed in the  $\alpha$ -granules of platelets and Weibel-Palade bodies of endothelial cells. Upon cellular activation, P-selectin is translocated to the surface membrane. P-selectin mediates the adhesion of activated platelets to neutrophils and monocytes<sup>2</sup>. The surface expression of P-selectin on platelets can be used as a marker for  $\alpha$ -granule secretion.

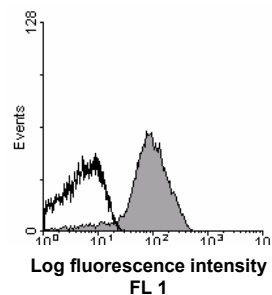
**Preparation and Storage:** The antibody was purified from hybridoma cell culture supernatant by Protein G-Sepharose chromatography. The antibody was conjugated with FITC under optimum conditions. The solution is free of unbound FITC. Store product undiluted at 4°C and avoid prolonged exposure to light. Stable for one year from date of shipment. Do not freeze.

**Usage:** The antibody preparation is optimized for flow cytometric applications: Use 5  $\mu$ l to stain  $\sim 10^6$  platelets or  $\sim 0.5 \times 10^6$  cells in a recommended volume of 25  $\mu$ l. Incubate for 15 minutes at room temperature, stop reaction by addition of 400  $\mu$ l PBS and analyze samples within 30 minutes. For immunofluorescent staining of acetone-fixed frozen sections, the appropriate dilution must be determined individually.

**Caution:** Sodium azide is a reversible inhibitor of oxidative metabolism; therefore, antibody preparations containing this preservative agent must not be used in cell cultures nor injected into animals. Sodium azide may be removed by washing stained cells or plate-bound antibody or dialyzing soluble antibody in sodium azide-free buffer.

**P-selectin expression on platelets**

$10^6$  resting (black line) or thrombin-activated (shaded area) mouse platelets in 25  $\mu$ l were stained with 5  $\mu$ l Wug.E9-FITC for 15 min at RT and analyzed directly. Platelets were gated by FSC/SSC characteristics.



- References:**
1. Bird MI, Foster MR, Priest R, et al. (1997) Selectins: physiological and pathophysiological roles. *Biochem Soc Trans.* 25(4):1199-206
  2. Bouchard BA, Tracy PB. (2001) Platelets, leukocytes, and coagulation. *Curr Opin Hematol.* 8(5):263-9