

M130-2

Product Information

Catalog Number: M130-2
Clone / Isotype: Wug.E9 / Rat (Wistar) IgG1
Contents: PE-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 molecules¹. P-selectin is expressed in the α -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 monocytes². The surface expression of P-selectin on platelets can be used as a marker for α -granule secretion.

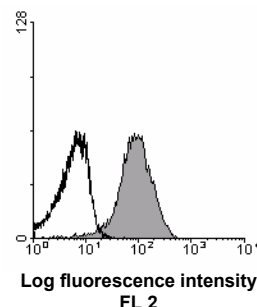
Preparation and Storage: The antibody was purified from hybridoma cell culture supernatant by Protein G-Sepharose chromatography. The antibody was conjugated with PE under optimum conditions. The solution is free of unbound PE. Store product undiluted at 4°C and avoid prolonged exposure to light. Stable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

Usage: The antibody preparation is optimized for flow cytometric applications: Use 5 μ l to stain $\sim 10^6$ platelets or $\sim 0.5 \times 10^6$ cells in a recommended volume of 25 μ l. Incubate for 15 minutes at room temperature, stop reaction by addition of 400 μ 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 μ l were stained with 5 μ l Wug.E9-PE 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