

M060-1**Product Information**

Catalog Number: M060-1
Clone / Isotype: Gon.C2 / 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 Gon.C2 antibody reacts with mouse GPV (CD42d), a 82 kDa protein of the leucine-rich glycoprotein (LRG) family of proteins. GPV non-covalently associates with the GPIb-IX complex in platelets and megakaryocytes¹ and serves as a low-affinity collagen receptor². GPV is proteolytically cleaved by thrombin to release the ~70 kD extracellular domain of the receptor from the platelet membrane. Gon.C2 binds to both the membrane-bound and the soluble form of GPV³.

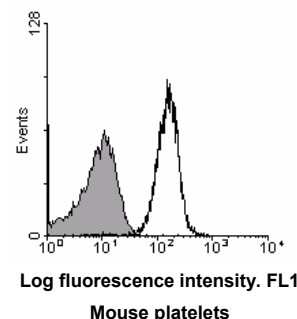
Preparation and Storage: The antibody was purified from hybridoma cell culture supernatant by Protein G-Sepharose chromatography. The antibody was conjugated with FITC under optimum conditions. The solution is free of unbound FITC. Store product undiluted at 4°C and avoid prolonged exposure to light.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

Usage: The antibody preparation is optimized for flow cytometric applications: Use 5 µl to stain ~10⁶ platelets or ~0.5x10⁶ cells in a recommended volume of 25 µl. Incubate for 15 minutes at room temperature, stop reaction by addition of 400 µl 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.

GPV expression on platelets

10⁶ resting (black line) or thrombin-activated (shaded area) mouse platelets in 25 µl were stained with 5 µl Gon.C2-FITC for 15 min at RT and analyzed directly. Platelets were gated by FSC/SSC characteristics.

**References:**

1. Modderman PW, Admiraal LG, Sonnenberg A, et al. (1992) Glycoproteins V and Ib-IX form a noncovalent complex in the platelet membrane. *J Biol Chem.* 267(1):364-9
2. Moog S, Mangin P, Lenain N, et al. (2001) Platelet glycoprotein V binds to collagen and participates in platelet adhesion and aggregation. *Blood.* 98(4):1038-46.
3. emfret Analytics. Unpublished results.