

M050-1

Product Information	
Catalog Number:	M050-1
Clone / Isotype:	Xia.C3/ Rat (Wistar) IgG2a
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.

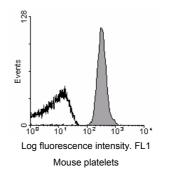
Specificity: The Xia.C3 antibody reacts with mouse GPIb β (CD42c), a platelet/megakaryocytespecific 24 kDa polypeptide that is disulfide-linked with GPIb α (150 kDa) in the membrane. GPIb is part of the GPIb-V-IX complex, the platelet receptor for von Willebrand factor (vWf)^{1,2}. In contrast to GPIb α , GPIb β is not sensitive to proteolytic cleavage during platelet activation. Therefore, Xia.C3 binds to resting and activated platelets with similar intensity³.

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 μ l to stain ~10⁶ platelets or ~0.5x10⁶ 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.

Detection of GPIb β on mouse platelets Mouse blood was diluted 1:20 and 25 μ I of this dilution were stained with 5 μ I control IgG-FITC (emfret Analytics, P190-1, *black line*) or Xia.C3-FITC (*shaded area*) for 15 min at RT and analyzed directly. Platelets were gated by FSC/SSC characteristics.



References:
1. Berndt MC, Shen Y, Dopheide SM, et al. (2001) The vascular biology of the glycoprotein Ib-IX-V complex. Thromb Haemost. 2001 Jul;86(1):178-88.
2. Bergmeier W, Rackebrandt K, Schroder W, Zirngibl H, Nieswandt B. (2000) Structural and functional characterization of the mouse von Willebrand factor receptor GPIb-IX with novel monoclonal antibodies. *Blood*. 95:886-93.
3. emfret Analytics. Unpublished results.