

R300

Product Information

Catalog Number:	R300
Isotype:	Rat IgG (Wistar)
Contents:	0.5 mg purified immunoglobulins in PBS, sterile filtered
Concentration:	0.5 mg/ml

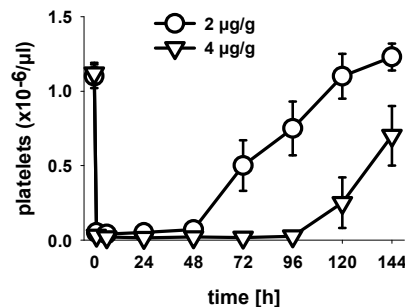
For research use only, not for diagnostic or therapeutic use. This product is no medical device.

Specificity: This antibody preparation contains a mixture of purified rat monoclonal antibodies directed against mouse GPIIb α (CD42b). Targeting of this receptor with divalent IgGs results in profound and irreversible Fc-independent platelet depletion in mice^{1,2}. Platelet depletion is frequently used to study the general role of platelets in (patho-) physiology³.

Preparation and Storage: The antibodies were purified from hybridoma cell culture supernatant by Protein G-Sepharose chromatography and contain < 0.00025 ng/ μ g (< 0.0025 EU/ μ g) protein endotoxin. Stable for six months from date of shipment when stored at 4°C. KEEP STERILE, the preparation contains no preservative. Aliquots can be stored at -20°C for at least one year. Avoid repeated freezing and thawing.

Usage: This preparation is optimized to reduce the platelet count by >95% within 60 minutes after intravenous injection of 2 μ g/g bodyweight. It is recommended to inject the antibodies in a volume of 100-200 μ l (diluted with sterile PBS).

Depletion of mouse platelets by anti-GPIIb α treatment
Wild type mice received 2 or 4 μ g/g platelet depletion antibodies in 200 μ l sterile PBS intravenously and platelet counts were determined at the indicated time points. Results are mean \pm s.d. of 6 mice per group.



References:

1. Bergmeier W, Rackebrandt K, Schroder W, Zirngibl H, Nieswandt B. (2000) Structural and functional characterization of the mouse von Willebrand factor receptor GPIIb-IX with novel monoclonal antibodies. *Blood*. 95:886-93.
2. Nieswandt B, Bergmeier W, Rackebrandt K, Gessner JE, and Zirngibl H. (2000) Identification of critical antigen-specific mechanisms in the development of immune thrombocytopenic purpura in mice. *Blood*. 96:2520-27.
3. Elzey BD, Tian J, Jensen RJ *et al.* (2003) Platelet-mediated modulation of adaptive immunity. A communication link between innate and adaptive immune compartments. *Immunity*. 19:9-19.