

M030-0

Product Information

Catalog Number:	M030-0
Clone / Isotype:	Luc.A5 / Rat (Wistar) IgG2a
Contents:	0.5 mg purified immunoglobulin in PBS and 0.09% (w/v) sodium azide
Concentration:	0.5 mg/ml

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

Specificity: The Luc.A5 antibody reacts with murine integrin $\beta 3$ chain (GPIIIa, CD61) the 90 to 95-kDa glycoprotein that non-covalently associates with the 135-kDa α IIb chain (CD41) or the 125-kDa α V chain (CD51). Integrin α IIb β 3 is an activation dependent platelet receptor for fibrinogen, von Willebrand factor, fibronectin, and vitronectin and it mediates platelet adhesion and aggregation^{1,2}. Integrin α V β 3 mediates adhesion to vitronectin, vWf, fibrinogen, and thrombospondin³. Integrin α V β 3 is expressed on platelets, monocytes, activated lymphocytes, and granulocytes.

Preparation and Storage: The antibody was purified from hybridoma cell culture supernatant by Protein G-Sepharose chromatography. Stable for six months from date of shipment when stored at 4°C. Aliquots can be stored at -20°C for at least one year. Avoid repeated freezing and thawing.

Usage: This preparation can be used for immunoprecipitation, immunohistochemical analysis of acetone-fixed frozen sections, and immunofluorescent staining (1-3 μ g/10⁶ platelets or cells). Luc.A5 recognizes mouse GPIIIa in a Western blot analysis under reducing and non-reducing conditions². For varying applications, appropriate dilutions 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.

Luc.A5 recognizes GPIIIa in Western blot analysis

After separation of mouse platelet lysate by SDS-PAGE (reducing conditions) and transfer to PVDF membrane, the membrane was incubated with Luc.A5 (2-5 μ g/ml) and bound antibody was visualized with HRP-conjugated anti-rat IgG and ECL.



- References:**
1. Phillips DR, Charo IF, Scarborough RM. (1990) GPIIb-IIIa: the responsive integrin. *Cell*. 65(3):359-62.
 2. Shattil SJ. (1999) Signaling through platelet integrin alpha IIb beta 3: inside-out, outside-in, and sideways. *Thromb Haemost*. 82(2):318-25.
 3. Ruegg C, Mariotti A. 2003. Vascular integrins: pleiotropic adhesion and signaling molecules in vascular homeostasis and angiogenesis. *Cell Mol Life Sci*. 60(6):1135-57.