

# anti-human CD41

## Monoclonal Antibody TR8 to CD41 (Human)

Cat-No: **21380411**

100 µg in 100 µl

**Clone:** TR8

**Specificity:** The antibody TR8 reacts with CD41 (GPIIb), a transmembrane glycoprotein (integrin family) composed of two chains GPIIb $\alpha$  (heavy chain; 120 kDa) and GPIIb $\beta$  (light chain; 23 kDa). CD41 is mainly expressed on platelets and megakaryocytes.

**Isotype subclass:** Mouse IgG1

**Form:** Purified from ascites by protein-A affinity chromatography.

**Physical state:** Liquid

**Buffer/Additives/Preservative:** PBS, pH 7.2, containing 0.09% sodium azide.

**Expiration date:** The reagent is stable until the expiry date stated on the vial label.

**Storage conditions:** Store at 4 °C. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.

**Application:** Flow Cytometry

**Background:** **CD41** (platelet glycoprotein IIb) is composed of two subunits (120 kDa  $\alpha$  and 23 kDa  $\beta$ ) that interact with CD61 in the presence of calcium to form a functional adhesive protein receptor. CD41 is non-covalently associated with CD61 (GPIIIa) to form the GPIIb/IIIa (CD41/CD61) complex. Upon blood vessel damage, this receptor binds to a variety of proteins including von Willebrand factor, fibrinogen, fibronectin and vitronectin. The CD41/CD61 complex is one of the earliest markers of the megakaryocytic lineage and acts as the receptor for fibrinogen, fibronectin, Von Willebrand factor, vitronectin, thrombin and mediates platelets aggregation. CD41 is mainly expressed on megakaryocyte-platelet lineage, but generally belongs to the antigens that are expressed during early stages of hematopoietic differentiation. The CD41/CD61 (GPIIb/IIIa) may be absent or strongly reduced in Glanzmann's thrombasthenia (GT).

**References:** Leukocyte Typing VI. Kishimoto T. et al. (Eds.), Garland Publishing Inc. (1997).

**Warning:** Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

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