

## Monoclonal antibody against human CD41

Product Nos. ADG5034 and ADG5034L

### Description

**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. Upon blood vessel damage, this receptor binds to a variety of proteins including von Willebrand factor, fibrinogen, fibronectin and vitronectin. CD41 is mainly expressed on megakaryocyte-platelet lineage, but generally belongs to the antigens that are expressed during early stages of hematopoietic differentiation.

### Properties

The monoclonal antibody ADG5034/L (clone HIP7) is a murine monoclonal antibody, subclass IgG<sub>2a</sub>. The antibody has been purified from by protein-G affinity chromatography, Purity > 95% (by SDS-PAGE).

The antibody recognizes a 140-kDa glycoprotein which is the  $\beta$  subunit of the CD41/CD61 (GPIIb/IIIa,  $\beta_3$ ) complex called glycoprotein IIb (GPIIb). GPIIb is a calcium-dependent, noncovalently associated heterodimer and contains a heavy chain (GPIIb $\beta$ ) and a light chain (GPIIb $\alpha$ ) linked by a single disulfide bond.

### Presentation

Vial containing 100  $\mu$ g /100  $\mu$ l (ADG5034) or 300  $\mu$ g/300  $\mu$ l (ADG5034L) of purified antibody in PBS containing 0.09 % sodium azide (pH 7.2). The IgG concentration is 1 mg/ml. Spin the vial briefly before opening.

### Storage and Stability

Store at 4 °C. For long-term storage aliquot and store at -20°. It is recommended to avoid freeze-thaw cycles. The reagent is stable until the expiry date stated on the vial label.

### Applications

Flow Cytometry

### References

Leucocyte Typing VI: White Cell Differentiation Antigens. P49-52, 113-114 Garland Publishing, Inc., New York.

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