

## Anti-GPIIb/IIIa [10E5] Bulk Size Ab00519-23.0-BT

Recombinant monoclonal antibody to GPIIb/IIIa. Manufactured using AbAb's Recombinant Platform with variable regions (i.e. specificity) from the hybridoma 10E5.

**Isotype and Format:** Rabbit IgG, Kappa

**Clone Number:** 10E5

**Alternative Name(s) of Target:** Glycoprotein IIb/IIIa;  $\alpha$ IIb $\beta$ 3; Integrin alpha-IIb/beta-3

**UniProt Accession Number of Target Protein:** P08514

**Published Application(s):** WB, ELISA, IF

**Published Species Reactivity:** Human

**Immunogen:** Human blood platelets.

**Specificity:** The antibody binds to GPIIb/IIIa with an affinity (Kd) of  $16.2 \pm 6$  nM. The antibody completely inhibits platelet aggregation at 7.8  $\mu$ g/ml.

**Application Notes:** The antibody binds specifically to human GPIIb/IIIa, and integrin complex of membrane glycoproteins expressed on the surface of platelets. The GPIIb/IIIa complex acts as a receptor for fibrinogen and Von Willebrand factor, hemostatic glycoproteins that mediate platelet aggregation and blood coagulation. The monoclonal antibody 10E5 inhibits the binding of fibrinogen to its platelet receptor, preventing the platelet aggregation, to be used during coronary artery surgeries such as angioplasty. The antibody is also useful in the study of the disease Glanzmann's thrombasthenia, caused by defects in GPIIb/IIIa, and of immune thrombocytopenic purpura, where autoantibodies are produced against GPIIb/IIIa.

**Antibody First Published in:** Collier BS, Peerschke EI, Scudder LE, Sullivan CA. A murine monoclonal antibody that completely blocks the binding of fibrinogen to platelets produces a thrombasthenic-like state in normal platelets and binds to glycoproteins IIb and/or IIIa. *J Clin Invest.* 1983 Jul;72(1):325-38.

[PMID:6308050](#)

**Note on publication:** Describes the development of the monoclonal antibody 10E5, which completely blocks the binding of fibrinogen to platelets.

## Product Form

**Size:** 1 mg Purified antibody in bulk size.

**Purification:** Protein A affinity purified

**Supplied In:** PBS only.

**Storage Recommendation:** Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer

storage, aliquot and store at -20°C.

**Concentration:** 1 mg /ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.