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

This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG2a format, for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Rabbit IgG, Kappa
**Clone Number:** 10E5
**Alternative Name(s) of Target:** Integrin alpha-IIb/beta-3; Glycoprotein IIb/IIIa; αIIbβ3
**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±6 nM. The antibody completely inhibits platelet aggregation at 7.8 µg/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 Willebran 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:** Coller 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 4ºC for up to 3 months. Note, this antibody is provided without

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added preservatives, it is therefore recommed this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20ºC.
**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.

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