



1F-145-T100

Monoclonal Antibody to PAC-1 Fluorescein (FITC) conjugated (100 tests)

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| Clone: | PAC-1 |
| Isotype: | Mouse IgM |
| Specificity: | The mouse monoclonal antibody PAC-1 recognizes an activation-induced conformational epitope PAC-1 on CD41/CD61 complex (gpIIb/IIIa), also known as integrin alpha IIb beta 3, a receptor which mediates platelet aggregation. |
| Regulatory Status: | RUO |
| Immunogen: | Human platelets |
| Species Reactivity: | Human |
| Preparation: | The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary. |
| Storage Buffer: | The reagent is provided in stabilizing Tris buffered saline (TBS) solution containing 15mM sodium azide. |
| Usage: | The reagent is designed for Flow Cytometry analysis of human blood cells using 4 μ l reagent / 100 μ l of whole blood or 10^6 cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests. |
| Expiration: | See vial label |
| Lot Number: | See vial label |
| Background: | CD41 (platelet glycoprotein IIb, integrin alpha IIb) is composed of two subunits (120 kDa transmembrane alpha chain and 23 kDa extracellular beta chain) and interacts with CD61 (platelet glycoprotein IIIa, integrin beta 3) in the presence of calcium to form a functional adhesive protein receptor. CD41/CD61 complex is one of the earliest markers of the megakaryocytic lineage. Upon blood vessel damage, this receptor binds to a variety of proteins including von Willebrand factor, fibrinogen, fibronectin and vitronectin, and it is involved in platelet aggregation. |
| References: | *Shattil SJ, Hoxie JA, Cunningham M, Brass LF: Changes in the platelet membrane glycoprotein IIb. IIIa complex during platelet activation. J Biol Chem. 1985 Sep 15;260(20):11107-14. *Shattil SJ, Cunningham M, Hoxie JA: Detection of activated platelets in whole blood using activation-dependent monoclonal antibodies and flow cytometry. Blood. 1987 Jul;70(1):307-15. *Tripathi M, Timar J, Lundy SK, Szekeres K, Cai Y, Porter AT, Honn KV: The high affinity alpha IIb beta 3 integrin is involved in invasion of human melanoma cells. Cancer Res. 1997 Jun 15;57(12):2522-8. |

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