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APC Mouse anti-Human CD42b Monoclonal Antibody

CLX44APC

Size:	100 Tests
Isotype:	Mouse IgG1
Clone:	HIP1
Specificity:	The antibody HIP1 reacts with CD42b (GPIb alpha), a 135-145 kDa membrane glycoprotein expressed on platelets and megakaryocytes. CD42b and CD42c (GPIb beta) are composed in a disulfide linked heterodimer (CD42b/c; 160 kDa); CD42b/c forms a non-covalent complex with CD42a and CD42d. HLDA IV; WS Code P 40
Immunogen:	Peripheral blood mononuclear cells of a patient suffering with CLL.
Species Reactivity:	Human, Non-Human Primates
Application:	Flow Cytometry Functional Application The antibody inhibits the ristocetin-dependent binding of von Willebrand Factor (vWF) to platelets and ristocetin-induced platelet agglutination.
Preparation:	The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Storage Buffer:	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
Usage:	The reagent is designed for Flow Cytometry analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Storage / Stability:	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light.
Background:	CD42b (GPIb alpha) composes together with GPIb beta, GPIX and GPV the GPIb-IX-V receptor complex critical in the process of platelet-rich thrombus formation by tethering the platelet to a thrombogenic surface. CD42b binds to von Willebrand factor (VWF) exposed at a site of vascular injury, as well as to thrombin, coagulation factors XI and XII, high molecular weight kininogen, TSP-1, integrin Mac-1 and P-selectin. The extracellular domain of CD42b by its interactions also contributes to metastasis.

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Laboratory Reagent For Research Use Only

MW 01/12/18