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Purified Mouse Anti-CD41a Monoclonal Antibody

CLX217AP

Lot:

Size: 0.1 mg

Clone: HIP8

Isotype: Mouse IgG1

Specificity: The antibody HIP8 reacts with alpha (α) subunit of CD41 (heavy chain; 120 kDa). CD41 is mainly expressed on platelets and megakaryocytes. The antibody HIP8 blocks platelet aggregation and completely inhibits ADP-, epinephrine-, and collagen-induced platelet activation, and partially inhibits ristocetin- and thrombin-induced platelet activation. HIP8 is useful in the morphological and physiological studies of platelets and megakaryocytes.

HLDA IV; WS Code P 38

Species Reactivity: Human, Non-Human Primates

Application: **Flow Cytometry**

This HIP8 antibody has been tested by flow cytometric analysis of human platelets. This can be used at less than or equal to 0.5 µg per 100 µl blood (per 10⁶ cells).

Immunohistochemistry (frozen sections)

Purity: > 95% (by SDS-PAGE)

Purification: Purified from ascites by protein-G affinity chromatography.

Concentration: 1 mg/ml

Storage Buffer: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4

Storage / Stability: Store at 2-8°C. Do not use after expiration date stamped on vial label. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.

Background: **CD41** (platelet glycoprotein IIb) is composed of two subunits (120 kDa α, and 23 kDa β) 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.

Continued...

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