



A7-309-T025

## Monoclonal Antibody to CD41 Alexa Fluor® 700 conjugated (25 tests)

<b>Clone:</b>	MEM-06
<b>Isotype:</b>	Mouse IgG1
<b>Specificity:</b>	The antibody MEM-06 reacts with CD41 (GPIIb), a transmembrane glycoprotein (integrin family) composed of two chains GPIIb alpha (heavy chain; 120 kDa) and GPIIb beta (light chain; 23 kDa). CD41 is mainly expressed on platelets and megakaryocytes. Workshop: HLDA 10
<b>Regulatory Status:</b>	RUO
<b>Immunogen:</b>	Leukocytes of patient suffering from LGL-type leukaemia.
<b>Species Reactivity:</b>	Human
<b>Preparation:</b>	The purified antibody is conjugated with Alexa Fluor® 700 under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
<b>Storage Buffer:</b>	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
<b>Storage / Stability:</b>	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
<b>Usage:</b>	The reagent is designed for Flow Cytometry analysis of human blood cells using 4 µl reagent / 100 µl of whole blood or 10 <sup>6</sup> cells in a suspension. The content of a vial (0.1 ml) is sufficient for 25 tests.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	CD41 (platelet glycoprotein IIb) is composed of two subunits (120 kDa a, alpha and 23 kDa b, beta) 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.

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**Antibodies****References:**

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- \*Komsa-Penkova R, Todinova SJ, Andreeva TD, Krumova SB, Taneva SG, Golemanov GM, Georgieva GA, Mihaylova NM, Tchorbanov PT: Alterations in platelet activity and elastic modulus of healthy subjects, carriers of G20210A polymorphism in the prothrombin gene. *J Biomed Clin Res Volume 9 Number 1*, 2016

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