

## anti-human CD41 PE-conjugated

PE -conjugated monoclonal antibody MEM-06 to human CD41

Cat-No: **21270414**

500 µl

**Clone:** MEM-06

**Specificity:** 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.

**Immunogen:** Leukocytes of patient suffering from LGL-type leukaemia.

**Isotype subclass:** Mouse IgG1

**Form:** The purified antibody is conjugated with R-Phycoerythrin (R-PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.

**Physical state:** Liquid

**Buffer/Additives/Preservative:** PBS containing BSA and 15 mM sodium azide (pH 7.4).

**Expiration date:** The reagent is stable until the expiry date stated on the vial label.

**Storage conditions:** Store at 4 °C. Do not freeze. Avoid prolonged exposure to light.

**Application:** Flow Cytometry

**References:** \*Debili N, Robin C, Schiavon V, Letestu R, Pflumio F, Mitjavila-Garcia MT, Coulombel L, Vainchenker W: Blood. 2001 Apr 1;97(7):2023-30

\*Mitjavila-Garcia MT, Cailleret M, Godin I, Nogueira MM, Cohen-Solal K, Schiavon V, Lecluse Y, Le Pesteur F, Lagrue AH, Vainchenker W: Development. 2002 Apr;129(8):2003-13.

\*Ferkowicz MJ, Starr M, Xie X, Li W, Johnson SA, Shelley WC, Morrison PR, Yoder MC: Development. 2003 Sep;130(18):4393-403.

\*Zhang J, Varas F, Stadtfeld M, Heck S, Faust N, Graf T: Exp Hematol. 2007 Mar;35(3):490-499.

**Background: CD41** (platelet glycoprotein IIb) is composed of two subunits (120 kDa  $\alpha$ ,  $\alpha$  and 23 kDa  $\beta$ ,  $\beta$ ) 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.

**Warning:** Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

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