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Technical Data Sheet

Anti-Mouse CD41 SAFIRE Purified

Catalog Number :03512-25

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Clone: MWReg30

Format/Conjugate: SAFIRE Purified

Concentration: 1 mg/mL

Reactivity: Mouse

Laser: Not Applicable

Peak Emission: Not Applicable

Peak Excitation: Not Applicable

Filter: Not Applicable

Brightness (1=dim,5=brightest): Not Applicable

Isotype: Rat IgG1, kappa

Formulation: Phosphate-buffered aqueous solution, ph7.2.

Storage: Product should be kept at 2-8°C.

Applications: FC, FA

Description

The MWReg30 monoclonal antibody specifically reacts with mouse CD41, a transmembrane glycoprotein also known as integrin alpha 2b GPIIb. It is expressed on hematopoietic progenitors, megakaryocytes, and platelets. It forms a receptor with CD61 (integrin beta 3) that binds adhesion molecules such as fibrinogen, fibronectin, von Willebrand factor, and thrombin. Defects or absence of CD41 has been found to lead to coagulation disorders. The expression profile of CD150+,CD48-, and CD41- can be used to identify hematopoietic stem cells.

Preparation & Storage

The product should be stored undiluted at 4°C. Do not freeze. The monoclonal antibody was purified utilizing affinitychromatography. The endotoxin level is determined by LAL test to be less than 0.01 EU/µg of the protein.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. It is recommended that the reagent be titrated for optimal performance for each application.

References

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2. Bertrand, J. Y., Giroux, S., Golub, R., Klaine, M., Jalil, A., Boucontet, L., ... Cumano, A. (2005). Characterization of purified intraembryonic hematopoietic stem cells as a tool to define their site of origin.;Proceedings of the National Academy of Sciences of the United States of America,;102(1), 134-139.

3. Mitjavila-Garcia, M. T., Cailleret, M., Godin, I., Nogueira, M. M., Cohen-Solal, K., Schiavon, V., ... Vainchenker, W. (2002). Expression of CD41 on hematopoietic progenitors derived from embryonic hematopoietic cells.Development,;129(8), 2003-2013.

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