



CD41 Antibody [MWReg30]

CATALOG NUMBER: 76-170

Specifications

SPECIES REACTIVITY:

TESTED APPLICATIONS:

USER NOTE: Optimal dilutions for each application to be determined by the researcher.

SPECIFICITY: The MWReg30 monoclonal antibody specifically reacts with mouse CD41, a transmembrane glycoprotein also known as integrin alpha 2b GPIIb.

HOST SPECIES: Rat

Properties

PURIFICATION: The monoclonal antibody was purified utilizing affinity chromatography. The endotoxin level is determined by LAL test to be less than 0.01 EU/μg of the protein.

PHYSICAL STATE: liquid

BUFFER: Phosphate-buffered aqueous solution, pH7.2.

CONCENTRATION: 1 mg/mL

STORAGE CONDITIONS: The product should be stored undiluted at 4°C . Do not freeze.

CLONALITY: Monoclonal

ISOTYPE: Rat IgG1, kappa

CONJUGATE: Unconjugated

Additional Info

ALTERNATE NAMES: CD41, CD41B, GpIIb, A172977, alphallb, Itga2b

OFFICIAL SYMBOL: Itga2b

GENE ID: 16399

Background

BACKGROUND: 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.

REFERENCES:

- 1) Schmidt, R. E., Grau, G. E., M, D. N., Nieswandt, B., Echtenacher, B., Wachs, F. P., ... Gessner, J. E. (1999). Acute Systemic Reaction and Lung Alterations Induced by an Antiplatelet. *Blood*, 94(2), 684-693.
- 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.

