

# Anti-Mouse CD41-143Nd

Catalog: 3143009B

Package Size: 100 tests

Storage: Store product at 4°C. Do not freeze.

Reactivity: Mouse,

Clone: MWReg30

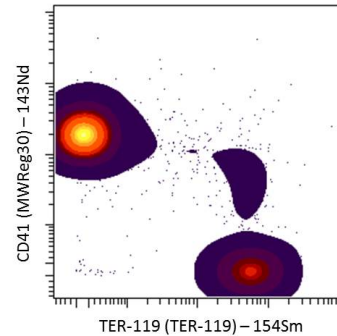
Isotype: IgG1

Formulation: Antibody stabilizer with 0.05% Sodium Azide

## Technical Information

**Validation:** Each lot of conjugated antibody is quality control tested by CyTOF® analysis of stained cells using the appropriate positive and negative cell staining and/or activation controls.

**Recommended Usage:** The suggested use is 1 µl for up to 3 X 10<sup>6</sup> live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Platelets isolated from mouse blood were stained with <sup>143</sup>Nd-anti-CD41 (MWReg30) and <sup>154</sup>Sm-anti-TER-119 (TER-119).

## Description

CD41, also known as integrin αIIb, is a transmembrane glycoprotein and commonly used as a marker of platelets and megakaryocytes. Furthermore, CD41 marks the onset of murine primitive and definitive hematopoiesis. CD41 associates with CD61 (integrin β3) to form a complex that interact with fibrinogen, fibronectin, von Willebrand factor and thrombin. CD41 is an important molecule in platelet biology and its major function is contributing to expansion of clot formation and platelet adhesion to the microvasculature. CD41 can be used in combination with CD150 and CD48 to identify CD150+CD48-CD41- hematopoietic stem cells (HSC).

## References

Bandura, D. R., et al. Mass Cytometry: Technique for Real Time Single Cell Multitarget Immunoassay Based on Inductively Coupled Plasma Time-of-Flight Mass Spectrometry. *Analytical Chemistry* 81:6813-6822, 2009.

Ornatsky, O. I., et al. **Highly Multiparametric Analysis by Mass Cytometry.** *J Immunol Methods* 361 (1-2):1-20, 2010.

### For technical support visit [fluidigm.com/support](http://fluidigm.com/support)

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