

## Anti-Mouse CD244.2-159Tb

**Catalog #:** 3159016B

**Package Size:** 100 tests

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

**Cross Reactivity:** Mouse

**Clone:** m2B4(B6)458.1

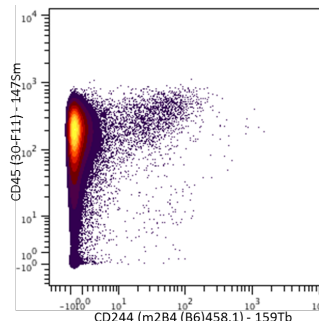
**Isotype:** Mouse IgG1

**Formulation:** Antibody stabilizer with 0.05% Sodium Azide

### Technical Information

**Validation:** Each lot of conjugated antibody is quality control tested by CyTOF<sup>®</sup> 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.



C57BL/6 mouse splenocytes stained with 147Sm-anti-CD45 (30-F11) and 159Tb-anti-CD244.2 (m2B4 (B6) 458.1).

### Description

CD244.2, also known as 2B4, is a 38 kDa type I transmembrane protein and member of the CD2 subset of the immunoglobulin superfamily of molecules. 2B4 is expressed on NK cells, monocytes, basophils, and eosinophils, and is inducibly expressed on a subset of CD8+ T cells in both mice and humans. In NK cells, 2B4 has been reported to have both activating and inhibitory functions; however recent evidence in both murine and human models indicates that its role in T cells is co-inhibitory. 2B4 expression is reduced in patients with systemic lupus erythematosus, and 2B4 deficiency in mice resulted in spontaneous development of a SLE-like disease in autoimmune-prone genetic backgrounds.

### 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.

### Contact Information:

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