

## Anti-Mouse F4/80-159Tb

**Catalog #:** 3159009B

**Package Size:** 100 tests

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

**Cross Reactivity:** Mouse

**Clone:** BM8

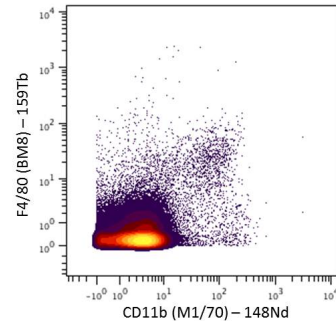
**Isotype:** Rat IgG2a

**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.



Mouse splenocytes stained with 148Nd-anti-CD11b (M1/70) and 159Tb-anti-F4/80 (BM8).

### Description

F4/80, a 160 kDa glycoprotein, has been established as one of the most specific cell-surface makers for murine macrophages. F4/80 is highly and constitutively expressed on most resident tissue macrophages, including the red pulp macrophages in the spleen, microglia in the brain, Kupffer's cells in the liver, and Langerhans' cells in the skin. Furthermore, the expression of F4/80 is tightly developmentally regulated with blood monocytes, the precursors of tissue macrophages, expressing lower levels than mature tissue-resident counterparts. F4/80 is down-regulated on macrophages in response to IFN $\gamma$ . It has been suggested that F4/80 plays a role in cell adhesion which effects the development, distribution and function of tissue macrophages.

### 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.

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