

Anti-Mouse CD23-159Tb

Catalog #: 3159011B

Package Size: 100 tests

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

Cross Reactivity: Mouse

Clone: B3B4

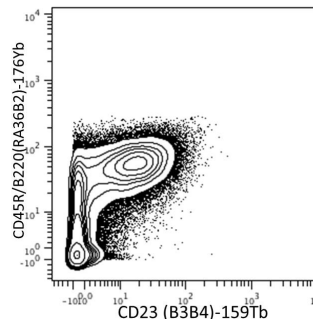
Isotype: Rat IgG2a

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 10⁶ 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 176Yb-anti-CD45R/B220 (RA36B2) and 159Tb-anti-CD23 (B3B4). Lymphocytes are displayed in the analysis.

Description

CD23, the low affinity receptor for immunoglobulin E (IgE), is a type II transmembrane protein and a member of the C-type lectin family. In mice, CD23 is detected on the surface of B cells, follicular dendritic cells and the gut epithelium, and has been widely used in combination with other markers to differentiate between subsets during B cell maturation. It has been proposed that CD23 plays an important role in the negative feedback of IgE production in vivo. This is based on increased IgE levels in CD23-deficient mice and decreased IgE levels in CD23 overexpressing mice.

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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