

Anti-Mouse FcεRIα-176Yb

Catalog #: 3176006B

Package Size: 100 tests

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

Cross Reactivity: Mouse

Clone: MAR-1

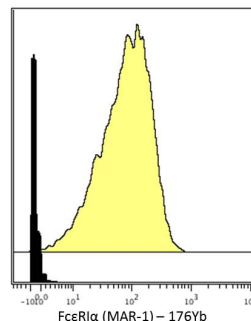
Isotype: Hamster IgG

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.



MC/9 (top) or NMuMG (bottom) mouse cell lines stained with 176Yb anti-FcεRIα (MAR-1).

Description

FcεRI is a member of the multichain immune recognition receptor family and exists as a tetrameric complex (αβγ₂). The α chain, a member of the immunoglobulin superfamily, contains the binding site for IgE, but lacks intrinsic signaling ability which is carried out by the β and γ subunits. FcεRIα is expressed on mast cells and basophils and up-regulated by the presence of IgE. The FcεRI complex plays an important role in triggering IgE-mediated allergic responses by causing the release of chemical mediators such as histamine. The MAR-1 monoclonal antibody reacts with the α subunit of the FcεRI complex.

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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