

Anti-Mouse CD48-156Gd

Catalog #: 3156012B

Package Size: 100 tests

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

Cross Reactivity: Mouse

Clone: HM48-1

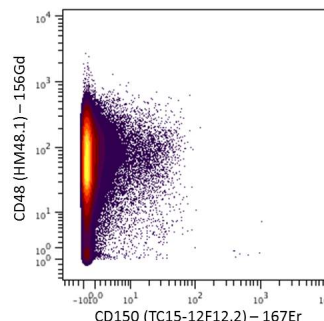
Isotype: Hamster IgG

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.



Mouse bone marrow cells stained with 156Gd anti-CD48 (HM48.1) and 167Er anti-CD150 (TC15-12F12.2). Viable lineage- cells are displayed in the analysis.

Description

CD48, also known as BCM1, is a 45 kDa member of the signaling lymphocyte activation molecule (SLAM) family of proteins. It is expressed on T cells, B cells and monocytes/macrophages. CD48 plays a critical role in adhesion and T cell activation. It can act as a ligand for both CD244 and CD2 and, depending on the context, either inhibits or stimulates IFN γ production from the target cell. CD48 can be used in combination with CD150 and CD41 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.

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