DVS Sciences

Product Information Sheet

Anti-Mouse CD8a-168Er

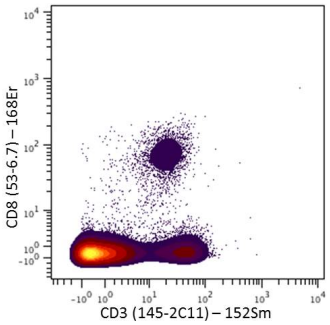
Catalog #: 3168003B
Package Size: 100 tests
Storage: Store product at 4°C. Do not freeze.
Cross Reactivity: Mouse

Clone: 53-6.7
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 10^6 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 152Sm anti-CD3e(145-2C11) and 168Er anti-CD8 (53-6.7). Total viable cells are displayed in the analysis.

Description

CD8, also known as T8, Lyt-2, or Ly2, is a type I membrane glycoprotein consisting of two disulfide-linked chains (CD8a, CD8b). CD8 is a member of the immunoglobulin superfamily, and is found on the majority of thymocytes, a subset of peripheral blood T cells. A subset of NK cells (which express almost exclusively CD8a homodimers). CD8 acts as a co-receptor with MHC class I-restricted T cell receptors in antigen recognition and T cell activation and has been shown to play a role in thymic differentiation. Two domains in CD8a are important for function: the extracellular IgSF domain binds the α3 domain of MHC class I and the cytoplasmic CXCP motif binds the tyrosine kinase p56 Lck

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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