

Anti-Human CD158e1/NKB1-167Er

Catalog: 3167013B

Clone: DX9

Package Size: 100 tests

Isotype: IgG1

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

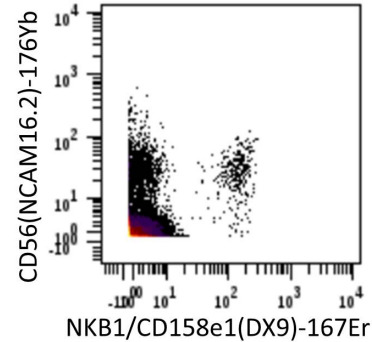
Formulation: Antibody stabilizer with 0.05% Sodium Azide

Reactivity: Human,

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.



Human whole blood stained with 167Er-anti-NKB1/CD158e1(DX9) and 176Yb-anti-CD56(NCAM16.2). Total viable cells are displayed in the analysis.

Description

The DX9 monoclonal antibody specifically binds to CD158e1, also known as NKB1. CD158e1 is a 70 kD member of the immunoglobulin superfamily that is expressed on a subset of natural killer cells and T cells. CD158e1 functions as a killer cell inhibitory receptor (KIR) and is encoded by KIR3DL1 (Killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail). Interaction of CD158e1 with specific HLA-B antigen on a target cell has been reported to inhibit cell-mediated cytotoxicity by delivering a negative signal that limits lymphocyte activation. It is suggested that this MHC class I-KIR interaction acts to regulate NK and T-cell responses to antigenic challenge.

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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