

Anti-Mouse CD335-167Er

Catalog #: 3167008B

Package Size: 100 tests

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

Cross Reactivity: Mouse

Clone: 29A1.4

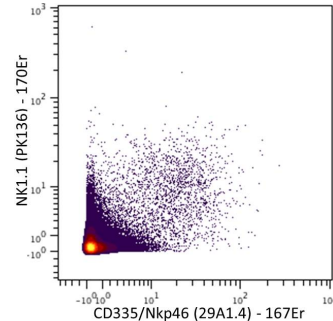
Isotype: Rat IgG2a

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 170Er-anti-NK1.1 (PK136) and 167Er-anti-CD335/Nkp46 (29A1.4).

Description

NKp46 (CD335) is an activating receptor containing two immunoglobulin-like domains. Within the bone marrow and blood NKp46 is a unique marker of NK cells, allowing discrimination of NK cells and NKT cells. In the mouse gut NKp46 is expressed in RORC+IL-22+ innate immune cells. Monoclonal antibody-mediated cross-linking of NKp46 induces calcium mobilization, cytolytic activity and release of IFN γ . Only one natural ligand, viral hemagglutinin, has been identified to date. However, NKp46 is postulated to have tumor ligands that can participate in tumor immunoediting. Mice deficient in NKp46 are unable to fight influenza infection, unable to control an experimental model of lymphoma, and are partially protected from development of type I diabetes.

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:

Sales: sales@DVSsciences.com | Support: support@DVSsciences.com
www.DVSsciences.com | For assistance by phone: 855-DVS-CYTO

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