

Anti-Human CD49e-160Gd

Catalog: 3160015B

Package Size: 100 tests

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

Reactivity: Human

Clone: NKI-SAM-1

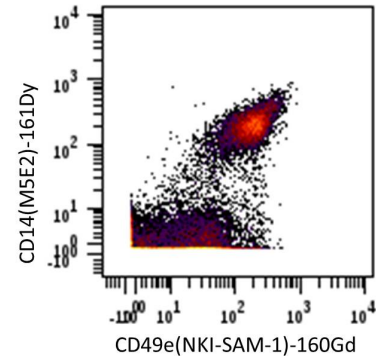
Isotype: IgG2b

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.



Human PBMCs stained with 160Gd-anti-CD49e(NKI-SAM-1) and 161Dy-anti-CD14(M5E2). Total viable cells are displayed in the analysis.

Description

The NKI-SAM-1 monoclonal antibody specifically recognizes CD49e, a type I transmembrane glycoprotein containing two disulfide-linked subunits of 135 kD and 24 kD. CD49e is also known as Integrin α5 Chain or VLA-5 α chain (VLA-5α). CD49e binds to CD29 to form the VLA-5 (Integrin α5/β1) complex. The VLA-5 complex is a fibronectin receptor expressed on fibroblasts, endothelial cells, epithelial cells, platelets, thymocytes, T cells and B cells. Several cell lines also express CD49e, including U937, K562 and some melanoma cell lines. It has been reported in the literature that CD49e mediates monocytes migration and is involved in the regulation of cells survival and apoptosis.

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.

For technical support visit fluidigm.com/support

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