

Anti-Human CD166-164Dy

Catalog: 3164022B

Package Size: 100 tests

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

Reactivity: Human,

Clone: 3A6

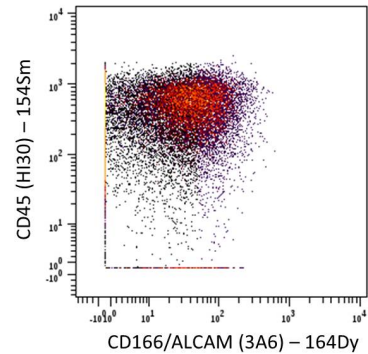
Isotype: IgG1

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.



RBC-lysed human whole blood cells stained with 154Sm-anti-CD45 (HI30) and 164Dy-anti-CD166/ALCAM (3A6). Total viable cells are displayed in the analysis.

Description

CD166, also known as activated leukocyte cell adhesion molecule (ALCAM), is a transmembrane glycoprotein that functions as a ligand for the CD6 molecule. CD166 belongs to the immunoglobulin superfamily and is broadly expressed on activated T cells, activated monocytes, epithelial cells, fibroblasts, and neurons. CD166 has also been detected in melanoma, colorectal carcinoma, as well as cancers of the breast, prostate, and bladder. CD166 plays an important role in mediating adhesion interactions between thymic epithelial cells and CD6+ cells during T cell development in the thymus. Its expression can also be used as a prognostic marker for several cancers and as a potential cancer stem cell marker.

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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North America +1 650 266 6100 | Toll-free: +1 866 358 4354 in the US | support.northamerica@fluidigm.com **Europe** +33 1 60 92 42 40 | support.europe@fluidigm.com

China (excluding Hong Kong) +86 21 3255 8368 | techsupportchina@fluidigm.com **Japan** +81 3 3662 2150 | techsupportjapan@fluidigm.com

All other Asian countries +1 650 266 6100 | techsupportasia@fluidigm.com **Central and South America** +1 650 266 6100 | techsupportlatam@fluidigm.com

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