

Anti-Mouse CD166/ALCAM-151Eu

Catalog: 3151019B

Package size: 100 tests

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

Clone: eBioALC48

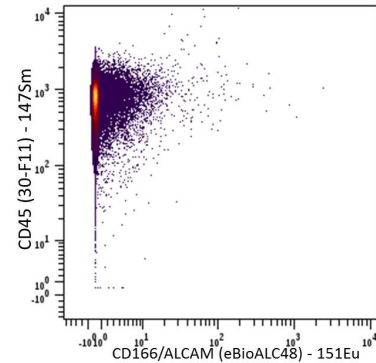
Isotype: Rat IgG2a

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 × 10⁶ 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 147Sm-anti-CD45 (30-F11) and 151Eu-anti-CD166/ALCAM (eBioALC48). 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 and 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 (2009): 6,813–22.

Ornatsky, O. I., et al. Highly Multiparametric Analysis by Mass Cytometry. *Journal of Immunological Methods* 361 (2010): 1–20.

For technical support visit fluidigm.com/support.

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