

# Anti-Human CD54-170Er

Catalog: 3170014B

Package Size: 100 tests

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

Reactivity: Human,

Clone: HA58

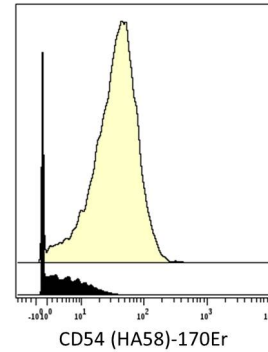
Isotype: IgG1

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 10<sup>6</sup> 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 170Er-anti-CD54 (HA58). Monocytes (top) and T cells (bottom) are displayed in the analysis.

## Description

The HA58 monoclonal antibody specifically binds to ICAM-1 (intracellular adhesion molecule-1), an 85-110 kDa type I transmembrane glycoprotein that belongs to the immunoglobulin supergene family, also known as CD54. CD54 is a ligand for Mac-1 (CD11b/CD18) and LFA-1 (CD11a/CD18). CD54 is expressed on macrophages, lymphocytes, dendritic cells, monocytes, granulocytes, and thymic stromal cells. CD54 is also present on non-immune cells such as hepatocytes, cardiomyocytes, and vascular smooth muscle cells. Additionally, it has been found that CD54 expression can be induced in vitro by proinflammatory cytokines, such as IFN-gamma, IL-1, CCL2, or TNF-alpha.

## 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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