

# Anti-Human/Mouse CD324/E-Cadherin-158Gd

Catalog: 3158018B

Clone: DECMA-1

Package size: 100 tests

Isotype: Rat IgG1

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

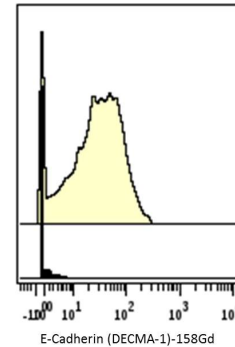
Formulation: Antibody stabilizer with 0.05% sodium azide

Cross-reactivity: Canine, Porcine

## Technical Information

**Validation:** Each lot of conjugated antibody is quality control-tested by CyTOF<sup>®</sup> 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 MCF-7 (top) and human Jurkat cells (bottom) stained with 158Gd-anti-E-Cadherin (DECMA-1).

## Description

CD324, also known as E-cadherin (Epithelial cadherin) or uvomorulin, is a member of the cadherin superfamily. E-cadherin is a calcium-dependent, transmembrane cell-cell adhesion glycoprotein composed of 4 extracellular cadherin repeats and a highly conserved cytoplasmic tail region. It functions as a cell adhesion molecule involved in development, bacterial pathogenesis and tumor invasion. E-cadherin is widely expressed in epithelial cells in the colon, uterus, liver, keratinocytes, brain, heart, muscle, kidney and pancreas as well as erythroid cells.

## 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.

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