

# Anti-Human CD284-158Gd

Catalog: 3158024B

Package Size: 100 tests

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

Reactivity: Human, Guinea Pig

Clone: HTA125

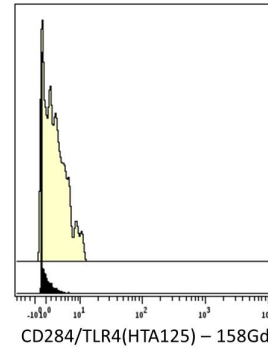
Isotype: Mouse IgG2a

Formulation: Antibody stabilizer with 0.05% Sodium Azide

## 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.



RBC-lysed human whole blood cells stained with 158Gd-anti-CD284/TLR4 (HTA125). Monocytes (top) and T cells (bottom) are displayed in the analysis.

## Description

Toll-like Receptor 4 (TLR4), is a 110 kDa member of the TLR family expressed on monocytes/macrophages, endothelial cells, and at low levels on B cells and granulocytes. Bacterial LPS, the major structural component of the outer wall of all gram-negative bacteria, engages TLR4 to induce a signaling cascade leading to the activation of an inflammatory response. TLR4 physically associates with MD-2, and together with CD14, this complex is responsible for LPS recognition and signaling. Binding of HTA125 to TLR4 is able to block LPS-induced cytokine expression.

## 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](http://fluidigm.com/support)

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

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

**All other Asian countries** +1 650 266 6100 | [techsupportasia@fluidigm.com](mailto:techsupportasia@fluidigm.com) **Central and South America** +1 650 266 6100 | [techsupportlatam@fluidigm.com](mailto:techsupportlatam@fluidigm.com)

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