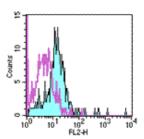


Anti-Human CD284 (TLR4) PE

Catalog Number: 12-9917

Also Known As:TLR-4, toll-like receptor 4

RUO: For Research Use Only



Staining of normal human peripheral blood cells with Mouse IgG2a κ Isotype Control PE (cat. 12-4724) (open histogram) or Anti-Human CD284 (TLR4) PE (filled histogram). Cells in the monocyte gate were used for analysis.

Product Information

Contents: Anti-Human CD284 (TLR4) PE

REF Catalog Number: 12-9917

Clone: HTA125

Concentration: 5 μ l (2.0 μ g)/test Host/Isotype: Mouse IgG2a, κ

Formulation: aqueous buffer, 0.09% sodium azide, may contain

carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C. Do not freeze. Light

sensitive material.
Batch Code: Refer to Vial

Use By: Refer to Vial
Caution, contains Azide

Description

The HTA125 monoclonal antibody reacts with human Toll-like receptor 4 (TLR4). So far, at least ten members of the Toll family have been identified in humans. This family of type I transmembrane proteins is characterized by an extracellular domain with leucine-rich repeats and a cytoplasmic domain with homology to the type I IL-1 receptor. Two of these receptors, TLR2 and TLR4, are pattern recognition receptors and signaling molecules in response to bacterial lipoproteins and have been implicated in innate immunity and inflammation. TLR4 physically associates with another molecule called MD-2, and together with CD14, this complex is responsible for LPS recognition and signaling. TLR4 is expressed by peripheral blood monocytes. HTA125 has been reported to immunoprecipitate human TLR4 (~100 kDa) from transfected cells. Most TLR cell surface expression, especially TLR1 and TLR4, occurs at low levels on monocytes and at even lower levels on other cell types including granulocytes and immature dendritic cells (iDC). Furthermore, a relatively high degree of variability in TLR surface expression has been reported among normal donors.

Applications Reported

The HTA125 antibody has been reported for use in flow cytometric analysis.

Applications Tested

The HTA125 antibody has been pre-titrated and tested by flow cytometric analysis of human peripheral blood leukocytes. This can be used at 5 μ l (2.0 μ g)/per test. A test is defined as the amount (μ g)/test of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

It is highly recommended that for optimal staining of TLR4, whole blood be stained using the LWB protocol rather than Ficoll-gradient prepared PBMCs. The use of a density gradient appears to reduce the staining intensity significantly.

References

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Related Products

12-4724 Mouse IgG2a K Isotype Control PE 14-8185 B18R Recombinant Protein 14-9920 Anti-Human CD284 (TLR4) Purified (Polyclonal) 34-8185 B18R Recombinant Protein Carrier-Free

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