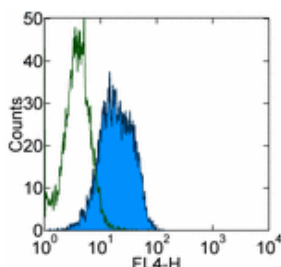


Anti-Human CD284 (TLR4) Alexa Fluor® 700

Catalog Number: 56-9917

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

RUO: For Research Use Only



Staining of human TLR4-transfected cells with staining buffer (autofluorescence) (open histogram) or Anti-Human CD284 (TLR4) Alexa Fluor® 700 (filled histogram). Total viable cells were used for analysis.

Product Information

Contents: Anti-Human CD284 (TLR4) Alexa Fluor® 700


REF Catalog Number: 56-9917

Clone: HTA125

Concentration: 5 µl (1.0 µg)/test


Host/Isotype: Mouse IgG2a, κ

Formulation: aqueous buffer, 0.09% sodium azide, contains stabilizer if necessary

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

LOT 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

For research use only, not for diagnostic or therapeutic use. This HTA125 antibody has been reported for use in flow cytometric analysis.

The Alexa Fluor® 700 emits at 723 nm and can be excited with the He-Ne 633 laser. Most instruments will require a 685 LP mirror and 710/20 filter. Please make sure that your instrument is capable of detecting this fluorochrome.

Applications Tested

This HTA125 antibody has been pre-titrated and tested by flow cytometric analysis of human peripheral blood leukocytes. This can be used at 5 µL (1.0 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

References

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Akashi, S., H. Ogata, et al. 2000. Regulatory roles for CD14 and phosphatidylinositol in the signaling via toll-like receptor 4-MD-2. *Biochem Biophys Res Commun.* 268(1): 172-7.

Shimazu, R., S. Akashi, et al. 1999. MD-2, a molecule that confers lipopolysaccharide responsiveness on Toll-like receptor 4. *J Exp Med.* 189(11): 1777-82.

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Mirlashari MR and Lyberg T. 2003. Expression and involvement of Toll-like receptors (TLR)2, TLR4, and CD14 in monocyte TNF-alpha production induced by lipopolysaccharides from *Neisseria meningitidis*. *Med Sci Monit.* 9(8):BR316-24. (HTA125, FA, PubMed)

Related Products

14-8185 B18R Recombinant Protein

14-9920 Anti-Human CD284 (TLR4) Purified (Polyclonal)

34-8185 B18R Recombinant Protein Carrier-Free

56-4724 Mouse IgG2a K Isotype Control Alexa Fluor® 700

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