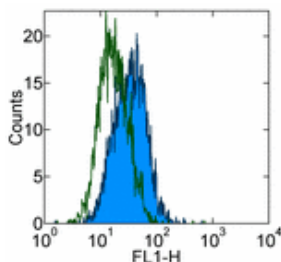


Anti-Mouse CD284 (TLR4) Alexa Fluor[®] 488

Catalog Number: 53-9041

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

RUO: For Research Use Only



Staining of C57BL/6 thioglycolate-induced peritoneal exudate cells with 0.5 µg of Mouse IgG1 κ Isotype Control Alexa Fluor[®] 488 (cat. 53-4714) (open histogram) or 0.5 µg of Anti-Mouse CD284 (TLR4) Alexa Fluor[®] 488 (filled histogram). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD284 (TLR4) Alexa Fluor[®] 488


REF Catalog Number: 53-9041

Clone: UT41

Concentration: 0.5 mg/ml


Host/Isotype: Mouse IgG1

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.

LOT Batch Code: Refer to Vial

 Use By: Refer to Vial

 Caution, contains Azide

Description

The UT41 monoclonal antibody was generated against BaF3 cells overexpressing mouse TLR4. So far, at least twelve members of the Toll family have been identified. This family of type I transmembrane protein 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, which is approximately 100 kDa, is expressed by myeloid lineage cells.

The MTS510 monoclonal antibody co-immunoprecipitates MD-2 (~30 kDa) and TLR4 (~100 kDa), and preferentially reacts with TLR4 that is associated with MD-2. In comparison, binding of the UT41 monoclonal antibody occurs with and without formation of the TLR4/MD-2 complex. Please contact eBioscience Technical Support for further information.

Applications Reported

This UT41 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This UT41 antibody has been tested by flow cytometric analysis of mouse peritoneal exudate cells. This can be used at less than or equal to 1 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Nomura, F., S. Akashi, et al. 2000. Cutting edge: endotoxin tolerance in mouse peritoneal macrophages correlates with down-regulation of surface toll-like receptor 4 expression. *J Immunol* 164(7): 3476-9.

Sato, S., F. Nomura, et al. 2000. Synergy and cross-tolerance between toll-like receptor (TLR) 2- and TLR4-mediated signaling pathways. *J Immunol* 165(12): 7096-101.

Related Products

13-9924 Anti-Mouse TLR4/MD-2 Complex Biotin (MTS510)

14-8185 B18R Recombinant Protein

34-8185 B18R Recombinant Protein Carrier-Free

53-4714 Mouse IgG1 K Isotype Control Alexa Fluor[®] 488

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