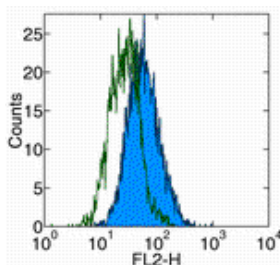


Anti-Mouse TLR4/MD-2 Complex Purified

Catalog Number: 14-9924

Also Known As: TLR4/ MD-2, TLR-4/ MD2, toll-like receptor MD2

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of thioglycolate-induced peritoneal exudate cells (PECs) with Anti-Mouse TLR4/MD-2 Complex PE. Appropriate isotype controls were used (open histogram). Cells in the large scatter population were used for analysis.

Product Information

Contents: Anti-Mouse TLR4/MD-2 Complex Purified

REF **Catalog Number:** 14-9924

Clone: MTS510

Concentration: 0.5 mg/mL

Host/Isotype: Rat IgG2a, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer



Temperature Limitation: Store at 2-8°C.



Batch Code: Refer to Vial



Use By: Refer to Vial



Caution, contains Azide

Description

The MTS510 monoclonal antibody reacts with the mouse Toll-like receptor 4 (TLR4)/MD-2 complex. At least ten members of the Toll family have been identified. 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 MD-2, and together with CD14, this complex is responsible for LPS recognition and signaling. In the mouse, TLR4 is expressed by thioglycolate-elicited peritoneal macrophages. Incubation of peritoneal macrophages with LPS results in down regulation of surface TLR4/MD-2. The TLR4 gene is defective in C3H/HeJ and C57BL/10ScCr mice, both of which have been well characterized as hyporesponders to LPS.

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 MTS510 antibody has been reported for use in flow cytometric analysis, immunoprecipitation, immunohistology staining of frozen tissue sections and inhibition of LPS-induced cytokine production. (Please use Functional Grade purified MTS510, cat. 16-9924, in functional assays.)

Applications Tested

The MTS510 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

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14-4321 Rat IgG2a K Isotype Control Purified (eBR2a)

14-8185 B18R Recombinant Protein

14-9041 Anti-Mouse CD284 (TLR4) Purified (UT41)

17-4317 Streptavidin APC

34-8185 B18R Recombinant Protein Carrier-Free

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