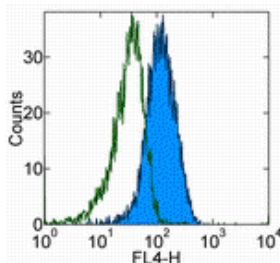


Anti-Mouse TLR4/MD-2 Complex APC

Catalog Number: 17-9924

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

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



Staining of thioglycolate-induced peritoneal exudate cells with 0.25 ug of Rat IgG2a kappa Isotype Control APC (cat. 17-4321) (open histogram) or 0.25 ug of Anti-Mouse TLR4/MD-2 Complex APC (filled histogram). Total viable cells were used for analysis.

Product Information

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

REF **Catalog Number:** 17-9924

Clone: MTS510


Concentration: 0.2 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. Do not freeze. Light sensitive material.

LOT **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.

Applications Tested

This MTS510 antibody has been tested by flow cytometric analysis of mouse peritoneal exudate cells. This can be used at less than or equal to 0.5 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.

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Related Products

14-8185 B18R Recombinant Protein

17-4321 Rat IgG2a K Isotype Control APC (eBR2a)

34-8185 B18R Recombinant Protein Carrier-Free

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