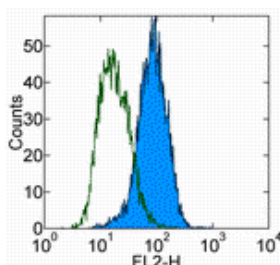


Anti-Human/Mouse CD282 (TLR2) Functional Grade Purified

Catalog Number: 16-9024

Also Known As: TLR-2, toll-like receptor 2

RUO: For Research Use Only



Staining of Raw264.7 cells with 0.25 µg of Mouse IgG1 Isotype Control Purified (cat. 14-4714) (open histogram) or 0.25 µg Anti-Mouse CD282 (TLR2) Functional Grade Purified (filled histogram) followed by Anti-Mouse IgG Biotin (cat. 13-4013) and Streptavidin PE (cat. 12-4317). Total viable cells were used for analysis.

Product Information

Contents: Anti-Human/Mouse CD282 (TLR2) Functional Grade Purified

REF **Catalog Number:** 16-9024

Clone: T2.5

Concentration: 1 mg/ml

Host/Isotype: Mouse IgG1


Handling Conditions: Use in sterile environment.

Endotoxin Level: Less than 0.001 ng/ug antibody, as determined by the LAL assay.

Formulation: aqueous buffer, no sodium azide

 **Temperature Limitation:** Store at 2-8°C.

LOT **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

Description

The T2.5 monoclonal antibody reacts with mouse and human Toll-like receptor 2 (TLR2). Mouse TLR2 is expressed by the myeloid lineage, including macrophage and dendritic cells in splenocytes and the RAW264.7 cell line. To date, at least twelve members of the Toll family have been identified in human and mouse. 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. TLR2 is expressed on the surface of cells and is responsible for distinguishing different pathogens. T2.5 is an antagonistic antibody.

Applications Reported

The T2.5 antibody has been reported for use in flow cytometric analysis. It has also been reported for use in functional assays.

Applications Tested

The T2.5 antibody has been tested flow cytometric analysis of mouse spleen 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.

References

Meng G, Rutz M, Schiemann M, Metzger J, Grabiec A, Schwandner R, Lippa PB, Ebel F, Busch DH, Bauer S, Wagner H, Kirschning CJ. 2004. Antagonistic antibody prevents toll-like receptor 2-driven lethal shock-like syndromes. *J Clin Invest.* 2004. 113:1473-81.

Sutmoller RP, den Brok MH, Kramer M, Bennink EJ, Toonen LW, Kullberg BJ, Joosten LA, Akira S, Netea MG, Adema GJ. Toll-like receptor 2 controls expansion and function of regulatory T cells. *J Clin Invest.* 2006 Feb;116(2):485-94 (T2.5, FC, PubMed)

Zhang C, Wang SH, Lasbury ME, Tschang D, Liao CP, Durant PJ, Lee CH. Toll-like receptor 2 mediates alveolar macrophage response to *Pneumocystis murina*. *Infect Immun.* 2006 Mar;74(3):1857-64 (T2.5, FA, PubMed).

Leemans JC, Stokman G, et al. 2005. Renal-associated TLR2 mediates ischemia/reperfusion injury in the kidney. *J Clin Invest.* 2005 Oct;115(10):2894-903. (IHC frozen and IP, PubMed)

Related Products

12-9021 Anti-Mouse CD282 (TLR2) PE (6C2)
12-9922 Anti-Human CD282 (TLR2) PE (TL2.1)
16-4714 Mouse IgG1 K Isotype Control Functional Grade Purified
16-9922 Anti-Human CD282 (TLR2) Functional Grade Purified (TL2.1)

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