

Anti-Mouse CD284 (TLR4) PE

Catalog Number :26912-60

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

Product Information

Clone: UT41

Format/Conjugate: PE

Concentration: 0.2 mg/mL

Reactivity: Mouse

Laser: Blue (488nm), Yellow/Green (532-561nm)

Peak Emission: 578nm

Peak Excitation: 496nm

Filter: 585/40

Brightness (1=dim,5=brightest): 5

Isotype: Mouse IgG1

Formulation: Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.

Storage: Product should be kept at 2-8°C and protected from prolonged exposure to light.

Applications: FC

Description

The UT41 monoclonal antibody specifically reacts with mouse CD284, a 110kDa type I transmembrane signaling molecule known as the Toll-like Receptor 4 (TLR4). The complex of TLR-4, MD-2, and CD14 regulates the innate immune system recognition of bacterial lipopolysaccharides (LPS) and is expressed on the surface of thioglycollate-elicited macrophages. The UT41 antibody can bind to TLR4 with or without the formation of the TLR4/MD-2 complex.

Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. For flow cytometric staining, the suggested use of this reagent is ≤0.5 ug per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

References

1. Yang, D., Liu, Y., Chen, Y., Jiao, D., Hou, X., Wang, L., Fu, N. (2012). Pretreatment with Mycobacterium avium-derived lipids attenuates the response of murine macrophages to components of Mycobacterium tuberculosis. *International journal of molecular medicine*,;29(6), 1072.
2. Nomura, F., Akashi, S., Sakao, Y., Sato, S., Kawai, T., Matsumoto, M., ... Akira, S. (2000). Cutting edge: endotoxin tolerance in mouse peritoneal macrophages correlates with down-regulation of surface toll-like receptor 4 expression. *The Journal of Immunology*,;164(7), 3476-3479.
3. Sato, S., Nomura, F., Kawai, T., Takeuchi, O., Mührladt, P. F., Takeda, K., Akira, S. (2000). Synergy and cross-tolerance between toll-like receptor (TLR) 2-and TLR4-mediated signaling pathways. *The Journal of Immunology*,;165(12), 7096-7101.