

## Anti-Mouse CD284 (TLR4) PE

Catalogue 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., & 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.