

## Anti-Human CD282 (TLR2) FITC

Catalogue Number : 24911-50

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

### Product Information

**Clone:** TL2.1

**Format/Conjugate:** FITC

**Concentration:** 5 uL (1 ug)/test

**Reactivity:** Human

**Laser:** Blue (488nm)

**Peak Emission:** 520nm

**Peak Excitation:** 494nm

**Filter:** 530/30

**Brightness (1=dim,5=brightest):** 3

**Isotype:** Mouse IgG2a, kappa

**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 TL2.1 monoclonal antibody specifically reacts with human CD282, the Toll-like receptor 2 (TLR2). It is a type I transmembrane signaling receptor containing IL-1 receptor like intracellular domain and leucine-rich repeats (LRR) in the extracellular domain. CD282 is expressed on peripheral blood monocytes and is involved distinguishing bacterial lipoproteins. The TL2.1 antibody blocks the receptor and immunoprecipitates TLR2 from human mammary epithelial cells (HMEC) and peripheral blood mononuclear cells (PBMC).

### 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. The antibody can be used at less than or equal to 5 µL per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 µL.

### References

1. Flo, T. H., Halaas, & Oslash, Lien, E., Ryan, L., Teti, G., Golenbock, D. T., ... ; Espevik, T. (2000). Human toll-like receptor 2 mediates monocyte activation by *Listeria monocytogenes*, but not by group B streptococci or lipopolysaccharide. *The Journal of Immunology*, 164(4), 2064-2069.
2. Lien, E., Sellati, T. J., Yoshimura, A., Flo, T. H., Rawadi, G., Finberg, R. W., ... ; Golenbock, D. T. (1999). Toll-like receptor 2 functions as a pattern recognition receptor for diverse bacterial products. *Journal of Biological Chemistry*, 274(47), 33419-33425.
3. Cook, E. B., Stahl, J. L., Esnault, S., Barney, N. P., ; Graziano, F. M. (2005). Toll-like receptor 2 expression on human conjunctival epithelial cells: a pathway for *Staphylococcus aureus* involvement in chronic ocular proinflammatory responses. *Annals of Allergy, Asthma ; Immunology*, 94(4), 486-497.