

## Anti-Human CD283 (TLR3) PE

Catalog Number :25911-60

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

### Product Information

**Clone:** TLR3.7

**Format/Conjugate:** PE

**Concentration:** 0.2 mg/mL

**Reactivity:** Human

**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, 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 TLR3.7 monoclonal antibody specifically reacts with human CD283 (TLR3), a type I transmembrane signaling receptor containing IL-1 receptor like intracellular domain and leucine-rich repeats (LRR) in the extracellular domain. It is expressed by dendritic cells and recognize double-stranded RNA and polyinosine-polycytidylic acid. Upon ligand binding, CD283 induces type I interferon production and activation of the nuclear factor kappa-light-chain-enhancer of activated B cells complex (NF-κB).

### 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. Matsumoto, M., Kikkawa, S., Kohase, M., Miyake, K., Seya, T. (2002). Establishment of a monoclonal antibody against human Toll-like receptor 3 that blocks double-stranded RNA-mediated signaling.; *Biochemical and biophysical research communications*; 293(5), 1364-1369.
2. Schreiner, B., Voss, J., Wischhusen, J., Dombrowski, Y., Steinle, A., Lochmüller, H., ... Wiendl, H. (2006). Expression of toll-like receptors by human muscle cells in vitro and in vivo: TLR3 is highly expressed in inflammatory and HIV myopathies, mediates IL-8 release and up-regulation of NKG2D-ligands.; *The FASEB journal*; 20(1), 118-120.
3. Oshiumi, H., Matsumoto, M., Funami, K., Akazawa, T., Seya, T. (2003). TICAM-1, an adaptor molecule that participates in Toll-like receptor 3-mediated interferon-β induction.; *Nature immunology*; 4(2), 161-167.