

Anti-Human CD283 (TLR3) PE

Catalogue 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.