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Technical Data Sheet

Anti-Human CD289 (TLR9) PE

Catalogue Number : 31011-60

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

Product Information

Clone: 72-1665
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: Rat 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 72-1665 monoclonal antibody specifically reacts with CD289, also known as human toll-like receptor 9 (TLR9). CD289 is involved in the activation of innate immunity, in acquired immune responses, and autoimmune diseases. It is involved in the immune system's response to unmethylated CpG dinucleotide sequences such as those found in bacterial, viral, or synthetic DNA. CD289 assists in pathogen recognition and is expressed by subtypes of dendritic cells and B cells.

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.Latz, E., Schoenemeyer, A., Visintin, A., Fitzgerald, K. A., Monks, B. G., Knetter, C. F., ... ; Golenbock, D. T. (2004). TLR9 signals after translocating from the ER to CpG DNA in the lysosome.;Nature immunology,;5(2), 190-198.

2. Leifer, C. A., Kennedy, M. N., Mazzoni, A., Lee, C., Kruhlak, M. J., ; Segal, D. M. (2004). TLR9 is localized in the endoplasmic reticulum prior to stimulation.The Journal of Immunology,;173(2), 1179-1183.

3. József, L., Khreiss, T., El Kebir, D., ; Filep, J. G. (2006). Activation of TLR-9 induces IL-8 secretion through peroxynitrite signaling in human neutrophils.;The Journal of immunology,;176(2), 1195-1202.

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