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Technical Data Sheet

Anti-Human CD284 (TLR4) PE

Catalog Number :26911-60

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

Product Information

Clone: HTA125

Format/Conjugate: PE

Concentration: 5 uL (2.0 ug)/test

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 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 HTA125 monoclonal antibody specifically reacts with human CD284, a 110kDA type I transmembrane signaling molecule known as the Toll-like Receptor 4 (TLR4). CD284 is an important molecule in the innate immunity response to bacterial lipoproteins. It is expressed by monocytes, macrophages, and endothelial cells. The HTA125 antibody can block Lipopolysaccharide-induced cytokine production and immunoprecipitate human TLR4.

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.Akashi, S., Ogata, H., Kirikae, F., Kirikae, T., Kawasaki, K., Nishijima, M., ... Miyake, K. (2000). Regulatory roles for CD14 and phosphatidylinositol in the signaling via toll-like receptor 4-MD-2.;Biochemical and biophysical research communications,;268(1), 172-177.

2. Shimazu, R., Akashi, S., Ogata, H., Nagai, Y., Fukudome, K., Miyake, K., Kimoto, M. (1999). MD-2, a molecule that confers lipopolysaccharide responsiveness on Toll-like receptor 4.;The Journal of experimental medicine,189(11), 1777-1782.

3. Mirlashari, M. R., Lyberg, T. (2003). Expression and involvement of Toll-like receptors (TLR) 2, TLR4, and CD14 in monocyte TNF-alpha production induced by lipopolysaccharides from Neisseria meningitidis.;Medical science monitor: international medical journal of experimental and clinical research,;9(8), BR316-24.

email: info@bio-gems.com | domain: www.bio-gems.com | phone: 818.338.3312 | fax: 818.338.3316