

Product Data Sheet

Purified anti-human CD281 (TLR1)

Catalog # / Size: 317501 / 25 µg

Clone: GD2.F4

Isotype: Mouse IgG1, κ

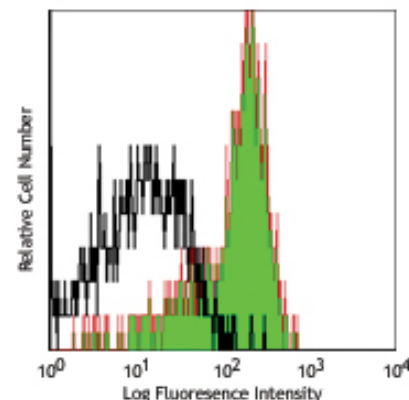
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C.



Human peripheral blood monocytes stained with purified GD2.F4, followed by biotinylated anti-mouse IgG and Sav-PE

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤ 2.0 µg per 10⁶ cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application References: 1. Wyllie D, *et al.* 2000. *J. Immunol.* 165:7125.
2. Visintin A, *et al.* 2001. *J. Immunol.* 166:249.

Description: Toll-like receptors (TLRs) are type I transmembrane signaling receptors characterized by containing leucine-rich repeats (LRR) extracellular domain and IL-1 receptor like intracellular domain. TLRs are responsible for recognizing pathogen-associated molecule patterns (PAMPs). They are primary sensors of both innate and adaptive immune systems. To date a total of 12 TLRs have been identified. Toll-like receptor 1 (TLR1), known as CD281, is expressed on monocytes/macrophages, dendritic cells, and granulocytes and some lymphocytes at low levels. By association with TLR2, TLR1 is a coreceptor involved in the response to diverse set of pathogens, such as triacylated lipopeptides (but not diacylated lipopeptides), peptidoglycans, lipoteichoic acid. The GD2.F4 antibody can be used for flow cytometry and for neutralization of TLR1.

Antigen References: 1. Hoebe K, *et al.* 2005. *Nature* 433:523.
2. Sandor F, *et al.* 2003. *J. Cell Biol.* 162:1099.
3. Takeuchi O, *et al.* 2002. *J. Immunol.* 169:10.
4. Wyllie D, *et al.* 2000. *J. Immunol.* 165:7125.
5. Buwitt-Beckmann U, *et al.* 2006. *J. Biol. Chem.* 281:9049.

Related Products:

Product
 Purified Mouse IgG1, κ Isotype Ctrl
 APC Goat anti-mouse IgG (minimal x-reactivity)
 PE Goat anti-mouse IgG (minimal x-reactivity)
 Cell Staining Buffer

Clone
 MOPC-21
 Poly4053
 Poly4053

Application

FC, ICFC, ICC, IF, IHC, IP, WB
 FC
 FC
 FC, ICC, ICFC



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