CD281 (TLR1) Monoclonal Antibody (GD2.F4), PE, eBioscience™

Product Details	
Size	25 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	GD2.F4
Conjugate	PE
Excitation/Emission Max	565/576 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4°C, store in dark, DO NOT FREEZE!
RRID	AB_1272152

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (1 µg)/test	11 Publications

Product Specific Information

Description: The GD2.F4 antibody reacts with human Toll-like receptor 1 (TLR1). TLR1 is expressed in low numbers on the surface of peripheral blood monocytes and even lower numbers on dendritic cells. A very high degree of donor variability has been reported for TLR1 expression. eBioscience manufactured GD2.F4 mAb has been tested by flow cytometry, in parallel with a sample from the developer using cells from healthy donors. eBioscience and the reference antibody gave similar results: donors tested confirmed low levels expression of TLR1 on PBMC (less than 1/4 log shift). While the ligand and exact function of TLR1 are not defined yet, it has been suggested that TLR1 may cooperate with TLR2 in response to certain antagonists. Despite low levels of surface expression as detected by flow cytometric analysis, TLRs are efficient signal transducing molecules in monocytes and dendritic cells. To date, at least ten members of the Toll family have been identified in human. This family of type I transmembrane proteins is characterized by an extracellular domain with leucine-rich repeats and a cytoplasmic domain with homology to the type I IL-1 receptor. Two of these receptors, TLR2 and TLR4, are pattern recognition receptors and signaling molecules in response to bacterial lipoproteins and have been implicated in innate immunity and inflammation.

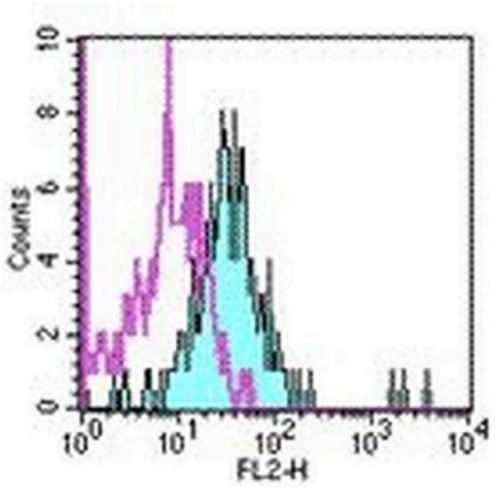
Applications Reported: The GD2.F4 antibody has been reported for use in flow cytometric analysis.

Applications Tested: The GD2.F4 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (1 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells /test.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD281 (TLR1) Monoclonal Antibody (GD2.F4), PE, eBioscience™



CD281 (TLR1) Antibody (12-9911-41) in Flow
Staining of normal human peripheral blood cells with Mouse IgG1 kappa Isotype Control PE (Product # 12-4714-81) (open histogram) or Anti-Human CD281 (TLR1) PE (filled histogram). Cells in the monocyte gate were used for analysis.

11 References

Flow Cytometry (11)

Signal transduction and targeted therapy

A novel alternative for pyrogen detection based on a transgenic cell line.

"Published figure using CD281 (TLR1) monoclonal antibody (Product # 12-9911-42) in Flow Cytometry"

Authors: He Q,Yu CF,Wu G,Wang KQ,Ni YB,Guo X,Fu ZH,Wang L,Tan DJ,Gao H,Wang C,Chen G,Chen XH,Chen B, Wang JZ

Year
2024

Journal of neuroscience research

Toll-like receptor 10 controls TLR2-induced cytokine production in monocytes from patients with Parkinson's disease.

"Published figure using CD281 (TLR1) monoclonal antibody (Product # 12-9911-42) in Flow Cytometry"

Authors: da Rocha Sobrinho HM,Saar Gomes R,da Silva DJ,Quixabeira VBL,Joosten LAB,Ribeiro de Barros Cardoso C, Ribeiro-Dias F

Year
2021

View more Flow references on thermofisher.cn

More applications with references on thermofisher.cn