

ARG54246 anti-CD180 / RP105 antibody [G28-8] (APC)

Package: 50 tests

Store at: 4°C

Summary

Product Description	APC-conjugated Mouse Monoclonal antibody [G28-8] recognizes CD180
Tested Reactivity	Hu
Tested Application	FACS
Specificity	The mouse monoclonal antibody G288 recognizes CD180, a 95105 kDa TLRlike glycoprotein expressed on peripheral blood monocytes and dendritic cells, mantle zone B cells and marginal zone B cells, but very weakly on germinal center B cells.
Host	Mouse
Clonality	Monoclonal
Clone	G28-8
Isotype	IgG1
Target Name	CD180 / RP105
Species	Human
Immunogen	Human tonsillar B cells
Conjugation	APC
Alternate Names	LY64; Radioprotective 105 kDa protein; CD180 antigen; CD antigen CD180; Lymphocyte antigen 64; RP105; Ly78

Application Instructions

Application table	Application	Dilution
	FACS	10 µl / 10 ⁶ cells

Application Note * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification Note	The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Buffer	PBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA
Preservative	15 mM Sodium azide
Stabilizer	0.2% (w/v) high-grade protease free BSA
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links

[GeneID: 4064 Human](#)

[Swiss-port # Q99467 Human](#)

Gene Symbol

CD180

Gene Full Name

CD180 molecule

Background

CD180, also known as RP105 (or Bgp95, LY64) is a type I membrane glycoprotein of Toll-like receptor (TLR) family. Its cytoplasmic tail is short and unlike the TLRs, it lacks the TIR domain. CD180 expression is dependent on the coexpression of its helper molecule, MD-1, and mirrors that of TLR4 on antigen-presenting cells. CD180 regulates recognition of LPS and signaling in B cells, via interacting directly with the TLR4 signaling complex, inhibiting its ability to bind microbial ligands. Ligation of CD180 by monoclonal antibodies leads to B cell activation, upregulation of CD80/CD86, and increase in cell size.

Function

May cooperate with MD-1 and TLR4 to mediate the innate immune response to bacterial lipopolysaccharide (LPS) in B-cells. Leads to NF-kappa-B activation. Also involved in the life/death decision of B-cells (By similarity). [UniProt]

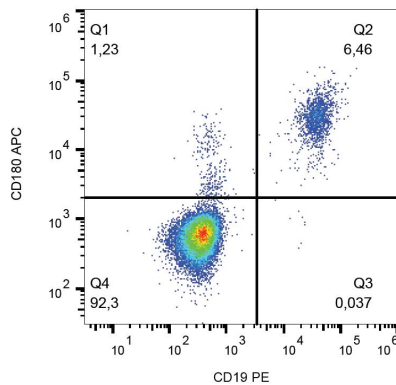
Research Area

Immune System antibody; Microbiology and Infectious Disease antibody

Calculated Mw

74 kDa

Images



ARG54246 anti-CD180 / RP105 antibody [G28-8] (APC) FACS image

Flow Cytometry: Human peripheral blood cells stained with ARG54246 anti-CD180 / RP105 antibody [G28-8] (APC) and anti-CD19 antibody (PE).