

ARG54247 anti-CD180 / RP105 antibody [G28-8] (PE)

Package: 50 tests

Store at: 4°C

Summary

| | |
|---------------------|---|
| Product Description | PE-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 | PE |
| Alternate Names | LY64; Radioprotective 105 kDa protein; CD180 antigen; CD antigen CD180; Lymphocyte antigen 64; RP105; Ly78 |

Application Instructions

| Application table | Application | Dilution |
|-------------------|-------------|-------------------------------|
| | FACS | 20 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 R-Phycoerythrin (PE) 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. |

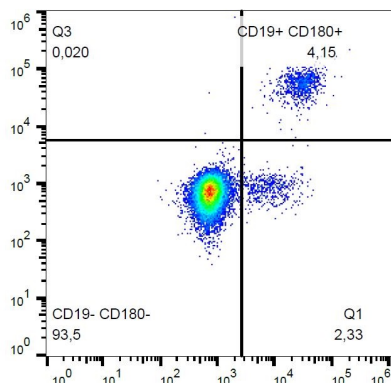
Note

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



ARG54247 anti-CD180 / RP105 antibody [G28-8] (PE) FACS image

Flow Cytometry: Human peripheral blood cells stained with ARG54247 anti-CD180 / RP105 antibody [G28-8] (PE).