

## ARG65445 anti-CD180 / RP105 antibody [G28-8]

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody [G28-8] recognizes CD180
Tested Reactivity	Hu
Tested Application	FACS, FuncSt, IP
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	Un-conjugated
Alternate Names	LY64; Radioprotective 105 kDa protein; CD180 antigen; CD antigen CD180; Lymphocyte antigen 64; RP105; Ly78

### Application Instructions

Application table	Application	Dilution
	FACS	2 µg/ml
	FuncSt	Assay-dependent
	IP	Assay-dependent
Application Note	Functional studies: Induction of B cell proliferation. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

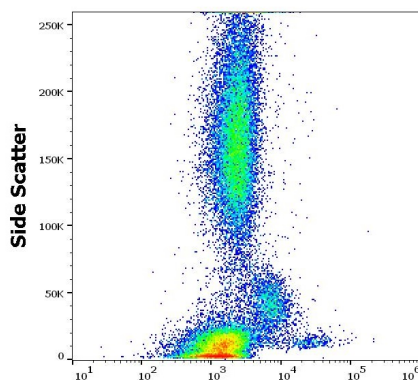
Form	Liquid
Purification	Purified from cell culture supernatant by protein-A affinity chromatography.
Purity	> 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4) and 15 mM Sodium azide
Preservative	15 mM Sodium azide

Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. 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

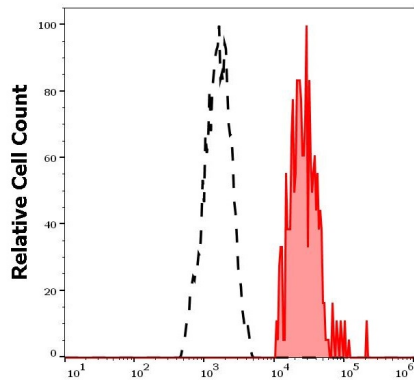
Database links	<a href="#">GeneID: 4064 Human</a> <a href="#">Swiss-port # Q99467 Human</a>
Gene Symbol	CD180
Gene Full Name	CD180 molecule
Background	CD180, also known as RP105 (or Bgp95, LY64) is a type I membrane glycoprotein of Toll-like receptor (TLR) family. Its cytoplasmic tail is short and unlike 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



ARG65445 anti-CD180 / RP105 antibody [G28-8] FACS image

Flow Cytometry: Human peripheral blood stained with ARG65445 anti-CD180 / RP105 antibody [G28-8] at 6 µg/ml dilution, followed by APC-conjugated Goat anti-Mouse antibody.



#### ARG65445 anti-CD180 / RP105 antibody [G28-8] FACS image

Flow Cytometry: Separation of human CD180 positive lymphocytes (red-filled) from CD180 negative lymphocytes (black-dashed). Human peripheral whole blood stained with ARG65445 anti-CD180 / RP105 antibody [G28-8] at 6 µg/ml dilution, followed by APC-conjugated Goat anti-Mouse antibody.