

Product datasheet for **AM26010LE-N**

RP105 (CD180) Mouse Monoclonal Antibody [Clone ID: G28-8]

Product data:

Product Type:	Primary Antibodies
Clone Name:	G28-8
Applications:	FC, FN, IP
Recommended Dilution:	Flow cytometry: 2 µg/ml. Immunoprecipitation. Functional application: Induction of B cell proliferation.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human tonsillar B cells
Specificity:	This antibody recognizes CD180, a 95-105 kDa TLR-like 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.
Formulation:	Azide free phosphate buffered saline (PBS), approx. pH 7.4; 0.2 µm filter sterilized State: Low Endotoxin State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Protein-A affinity chromatography (> 95% pure by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C. DO NOT FREEZE!
Stability:	Shelf life: one year from despatch.
Gene Name:	CD180 molecule
Database Link:	Entrez Gene 4064 Human Q99467



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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.

Synonyms:

LY64