

Product datasheet for **AM26010PU-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 detects CD180.
Formulation:	PBS with 15 mM sodium azide, approx. pH 7.4 State: Aff - Purified State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Protein-A affinity chromatography (> 95% pure by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store at 2 - 8 °C for up to three months or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing.
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

Protein Families: Druggable Genome, Transmembrane