

Product datasheet for **TA320240**

Cd180 Rat Monoclonal Antibody [Clone ID: RP/14]

Product data:

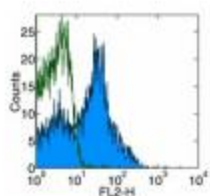
Product Type:	Primary Antibodies
Clone Name:	RP/14
Applications:	FC
Recommended Dilution:	Flow, Functional Assay, IP
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Formulation:	Aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Concentration:	lot specific
Purification:	Affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	CD180 antigen
Database Link:	NP_032559 Entrez Gene 17079 Mouse Q62192

Background: The RP/14 monoclonal antibody reacts with mouse CD180 (RP105). This 105 kDa type I transmembrane molecule is a member of the TLR family of proteins characterized by an extracellular domain with leucine-rich repeats and a cytoplasmic domain with homology to the type I IL-1 receptor. RP105 physically associates with another molecule called MD-1 and is expressed on mature B cells, monocytes/macrophages and dendritic cells. Ligation of RP105 with RP/14 protects B cells from irradiation- or dexamethasone-induced apoptosis, and drives them to proliferate. B cells activated by RP105-ligation arrest their growth and undergo apoptosis when the antigen receptor is engaged. The RP105/MD-1 complex in concert with TLR4 mediates B cell recognition and signaling of LPS. Thus, RP105 is a signal transduction molecule and plays a role in regulation of B cell growth and death.

Synonyms: LY64; Ly78; MGC126233; MGC126234; RP105



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Product images:

Surface staining of mouse splenocytes with Anti-Mouse CD180 (RP105) PE. Appropriate isotype controls were used (open histogram). Total viable cells were used for analysis.