

Purified anti-human CD180 (RP105)

Catalog # / Size: 312902 / 100 µg

Clone: MHR73-11

Isotype: Mouse IgG1, κ

Immunogen: Human RP105 complexed with mouse MD-1

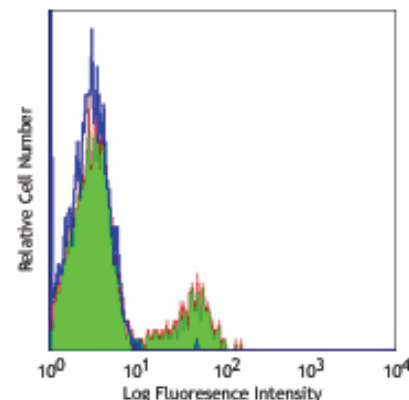
Reactivity: Human, **Cross-Reactivity:** Baboon, Cynomolgus, Rhesus

Preparation: The antibody was purified by affinity chromatography.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C.



Human peripheral blood lymphocytes stained with purified MHR73-11, followed by anti-mouse IgG FITC

Applications:

Applications: FC - *Quality tested*
IP, IHC - *Reported in the literature*

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤2.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: intracellular staining¹, immunoprecipitation¹, immunohistochemistry¹ of acetone-fixed frozen tissue sections, B cell activation¹, protection from apoptosis induced by radiation or dexamethasone, and induction of the costimulatory molecule CD80 (B7-1)¹. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 312907).

Application References: 1. Miura Y, *et al.* 1998. *Blood* 92:2815.

Description: CD180, also known as RP105, is a 105 kD member of the toll-like receptor (TLR) family and is expressed on most B cells, monocytes/macrophages and dendritic cells. The TLR family's structural characteristics are critically involved in protein-protein signaling interactions leading to the activation of the innate immune system. Additionally, MD-1, a secretory protein, associates with CD180 (RP105) at the cell surface and this complex, in conjunction with TLR4, recognizes bacterial LPS. The human CD180 (RP105) gene maps to 5q12. The MHR73-11 antibody is able to activate B cells and to protect against irradiation- or dexamethasone-induced apoptosis.

Antigen References: 1. Miura Y, *et al.* 1998. *Blood* 92:2815.

Related Products:

Product	Clone	Application
Purified anti-human CD14	M5E2	FC, IHC, IF, CyTOF®
Purified Mouse IgG1, κ Isotype Ctrl	MOPC-21	FC, ICFC, ICC, IF, IHC, IP, WB
APC Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	FC
FITC Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	FC
HRP Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	ELISA, IHC, WB
PE Goat anti-mouse IgG (minimal x-reactivity)	Poly4053	FC
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
Purified anti-human CD282 (TLR2)	TL2.1	FC, IHC, IP, WB
LEAF™ Purified anti-human CD284 (TLR4)	HTA125	FC, Block, IHC, IF



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