

PerCP/Cy5.5 anti-human CD161

Catalog # / Size: 339907 / 25 tests
339908 / 100 tests

Clone: HP-3G10

Isotype: Mouse IgG1, κ

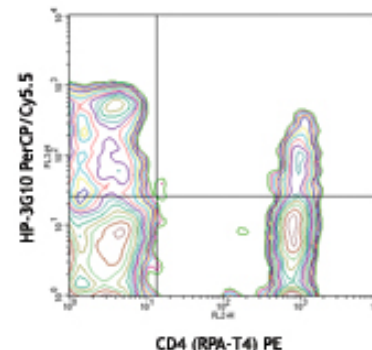
Immunogen: Human NK cells

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

Preparation: The antibody was purified by affinity chromatography, and conjugated with PerCP/Cy5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cy5.5 and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human peripheral blood lymphocytes stained with HP-3G10 PerCP/Cy5.5 and anti-CD4 (RPA-T4) PE

Applications:

Applications: FC - Quality tested

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 5 μ l per million cells or 5 μ l per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* PerCP/Cy5.5 has a maximum absorption of 482 nm and 564 nm and a maximum emission of 690 nm.

Application Notes: Additional reported applications (for the relevant formats) include: inhibition of cytokine production and Western blotting under nonreducing condition.

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Application References:

1. Gumá M, et al. 2004. *Blood* 104:3664.
2. Exley M, et al. 1998. *J. Exp. Med.* 188:867.
3. Marquez C, et al. 1998. *Blood* 91:2760.

Description: CD161 is a type II transmembrane glycoprotein, also known as NKR-P1A, that is expressed as a 40-44 kD homodimer. It is a member of the C-type lectin superfamily. CD161 is expressed on a majority of NK cells, NKT cells, and subsets of peripheral T cells and CD3⁺ thymocytes. It has been reported that Th17 cells are a subpopulation of CD4⁺CD161⁺CCR6⁺ cells. While the biological function of CD161 is not clear, it has been suggested to serve either as a stimulatory receptor or to inhibit NK cell-mediated cytotoxicity and cytokine production. LLT-1 (lectin-like transcript-1, also named as osteoclast inhibitory lectin or CLEC2D) is the ligand of CD161.

Antigen References:

1. Takahashi T, et al. 2006. *J. Immunol.* 176:211.
2. Cosmi L, et al. 2008. *J. Exp. Med.* 205:1903.
3. Aldemir H, et al. 2005. *J. Immunol.* 175:7791.
4. Rosen DB, et al. 2008. *J. Immunol.* 180:6508.

Related Products:

Product	Clone	Application
PerCP/Cy5.5 Mouse IgG1, κ Isotype Ctrl	MOPC-21	FC, ICFC
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC



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