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# Product Data Sheet

# FITC anti-human CD161

**Catalog # / Size:** 339905 / 25 tests
339906 / 100 tests

**Clone:** HP-3G10

**Isotype:** Mouse IgG1, κ

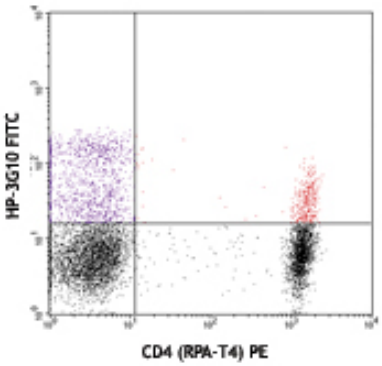
**Immunogen:** Human NK cells

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

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with FITC under optimal conditions. The solution is free of unconjugated FITC.

**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 FITC 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. **Test size products are transitioning from 20 µl to 5 µl per test**. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 µl staining volume or per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at www.biolegend.com/testsize regarding the test size change.

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

**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 |
|---|---|---|
| FITC Mouse IgG1, κ Isotype Ctrl (FC) | MOPC-21 | FC |
| 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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