

**APC/Fire™ 750 anti-human CD337 (NKp30)**

**Catalog # / Size:** 2226130 / 100 tests  
2226125 / 25 tests

**Clone:** P30-15

**Isotype:** Mouse IgG1, κ

**Immunogen:** Recombinant human NKp30

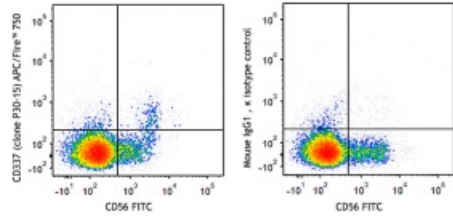
**Reactivity:** Human, Non-human primate, Other

**Preparation:** The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 750 under optimal conditions.

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

**Workshop Number:** VI B051

**Concentration:** Lot-specific



Human peripheral blood lymphocytes were stained with CD56 FITC and CD337 (clone P30-15) APC/Fire™ 750 (left) or Mouse IgG1, κ APC/Fire™ 750 isotype control (right) and CD56 FITC

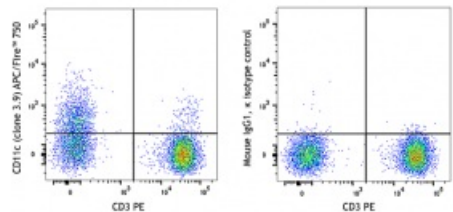
**Applications:**

**Applications:** Flow Cytometry

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.

\* APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.

**Application Notes:** Additional reported applications (for the relevant formats) include: ELISA, stimulation of human NK cells via NKp30 in a redirected lysis assay, and blocking of NKp30 function in solution<sup>1,3,5</sup>. The Ultra-LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. Nos. 325223 & 325224).



Human peripheral blood lymphocytes were stained with PE anti-human CD3 and APC/Fire™ 750 anti-human CD11c (clone 3.9) (left) or mouse IgG1, κ APC/Fire™ 750 isotype control (right).

- Application References:**
1. Stark S, et al. 2005. *J. Immunol. Methods* 296:149. (Block)
  2. Mansater I, et al. 2008. *J. Immunol.* 181:1869. [PubMed](#)
  3. Markel G, et al. 2009. *PLOS One* 4:e5597. (Block)
  4. Correia DV, et al. 2011. *Blood* 118:992. (FC) [PubMed](#)
  5. Byrd A, et al. 2007. *PLoS One.* 2:e1339. (Block)

**Description:** The p30-15 monoclonal antibody recognizes CD337 also known as activating NK receptor NKp30 (NKp30), and natural cytotoxicity triggering receptor 3. NKp30 is a type I transmembrane protein, member of the natural cytotoxicity receptor family that contains one immunoglobulin-like domain. NKp30 has an apparent molecular weight of 30 kD and six isoforms are produced by alternative splicing. NKp30 is expressed on resting and activated NK cells. NKp30 enhances NK cell cytotoxicity of tumor cells that are deficient in MHC class I molecules. NKp30 has been shown to associate with CD59 and TCR $\zeta$ . The p30-15 antibody against human NKp30 has been shown to be useful for flow cytometry, stimulation of human NK cells via NKp30 in a redirected lysis assay, and blocking of NKp30 function in solution.

**Antigen  
References:**

1. Pende D, *et al.* 1999. *J. Exp. Med.* 190:1505.