SONY

Product Data Sheet

PE/Dazzle™ 594 anti-human CD337 (NKp30)

Catalog # / Size: 2226155 / 25 tests
2226160 / 100 tests

Clone: P30-15

Isotype: Mouse IgG1, κ

Immunogen: Recombinant human NKp30

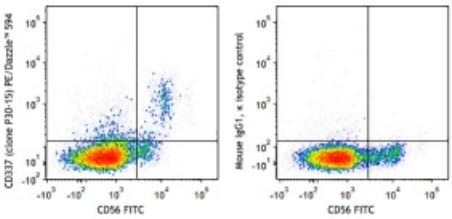
Reactivity: Human, Non-human primate, Other

Preparation: The antibody was purified by affinity chromatography and conjugated with PE/Dazzle™ 594 under optimal conditions.

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

Workshop Number: V CD40.5

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with CD56 FITC and CD337 (NKp30) (clone P30-15) PE/Dazzle™ 594 (left) or mouse IgG1, κ PE/Dazzle™ 594 isotype control (right).

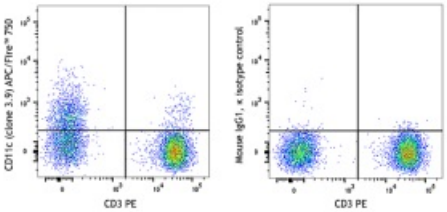
Applications:

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.

* PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.

Application Notes: Additional reported applications (for the relevant formats) include: Other, stimulation of human NK cells via NKp30 in a redirected lysis assay, and blocking of NKp30 function in solution[1,3,5]. .



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)

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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 cytolysis of tumor cellts that are deficient in MHC class I molecules. NKp30 has been shown to associate with CD59 and TCRζ. 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.

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