SONY

Product Data Sheet

PE anti-human CD337 (NKp30)

Catalog # / Size: 2226040 / 100 tests
2226035 / 25 tests

Clone: P30-15

Isotype: Mouse IgG1, κ

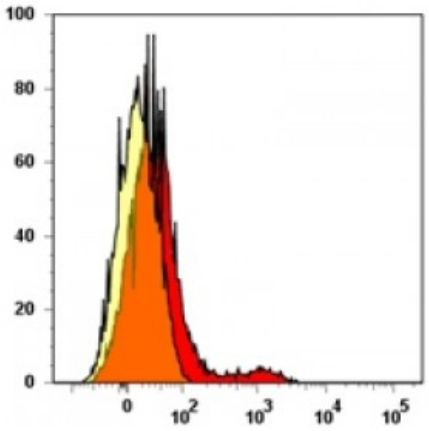
Immunogen: Recombinant human NKp30

Reactivity: Human

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

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

Concentration: Lot-specific



Human peripheral blood lymphocytes stained with P30-15 PE

Applications:

Applications: Flow Cytometry

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 microL to 5 microL per test**. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

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[1,3,5]. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 325204).

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 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

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

References: