

APC/Cyanine7 anti-human CD336 (NKp44)

Catalog # / 2225615 / 25 tests
Size: 2225620 / 100 tests

Clone: P44-8

Isotype: Mouse IgG1, κ

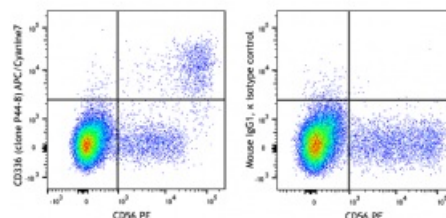
Immunogen: recombinant human NKp44

Reactivity: Human, Non-human primate, Other

Preparation: The antibody was purified by affinity chromatography and conjugated with APC/Cyanine7 under optimal conditions.

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 were stimulated with recombinant mouse IL-2 for 10 days, then stained with CD56 PE and CD336 (NKp44) (clone P44-8) APC/Cyanine7 (left) or mouse IgG1 κ , APC/Cyanine7 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 μ L per million cells in 100 μ L staining volume 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.

Application Notes: The p44-8 antibody against human NKp44 has been shown to be useful for flow cytometry, stimulation of human NK cells via NKp44 in a redirected lysis assay, and blocking of NKp44 function in solution. Additional reported applications (for the relevant formats) include: stimulation of human NK cells via NKp44 in a redirected lysis assay, and blocking of NKp44 function in solution^{1,2}. The LEAF™ purified antibody (Endotoxin <0.1 EU/ μ g, Azide-Free, 0.2 μ m filtered) is recommended for functional assays (Cat. No. 325104).

Application References:

1. Sommaggio R, et al. 2012. *J. Immunol.* 188:2075. (Block)
2. Hoechst B, et al. 2009. *Hepatology* 50:799. (Block) [PubMed](#)
3. Correia DV, et al. 2011. *Blood* 118:992. (FC) [PubMed](#)

Description: CD336 is also known as activating NK receptor NKp44 (NKp44), natural cytotoxicity triggering receptor 2, and lymphocyte antigen 95 homolog. It is a type I transmembrane protein, member of the natural cytotoxicity receptor family that contains one immunoglobulin-like domain. NKp44 has an apparent molecular weight of 44 kD and three isoforms are produced by alternative splicing. NKp44 is expressed on IL-2 activated NK cells and a subset of γ/δ T cells. NKp44 enhances NK cell mediated cytotoxicity of virus infected cells and tumor cells. NKp44 has been shown to associate with the intracellular adaptor DAP12.

- Antigen**
- References:**
1. Cantoni C, *et al.* 1999. *J. Exp. Med.* 189:787.
 2. Allcock RJN, *et al.* 2003. *Eur. J. Immunol.* 33:567.
 3. Cantoni C, *et al.* 2003. *Structure* 11:725.