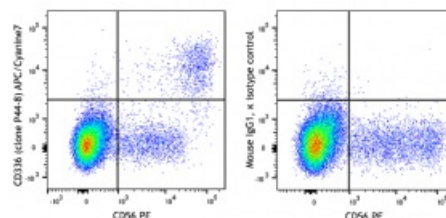


**APC/Cyanine7 anti-human CD336 (NKp44)****Catalog # /** 2225620 / 100 tests**Size:** 2225615 / 25 tests**Clone:** P44-8**Isotype:** Mouse IgG1,  $\kappa$ **Immunogen:** recombinant human NKp44**Reactivity:** Human, Non-human primate, Other**Preparation:** The antibody was purified by affinity chromatography 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  $\kappa$ , 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  $\mu$ L per million cells in 100  $\mu$ L staining volume or 5  $\mu$ L per 100  $\mu$ 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<sup>1,2</sup>. The LEAF™ purified antibody (Endotoxin <0.1 EU/ $\mu$ g, Azide-Free, 0.2  $\mu$ 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  $\gamma/\delta$  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.