

**PE anti-human CD336 (NKp44)**

**Catalog # / Size:** 2225540 / 100 tests  
2225535 / 25 tests

**Clone:** P44-8

**Isotype:** Mouse IgG1, κ

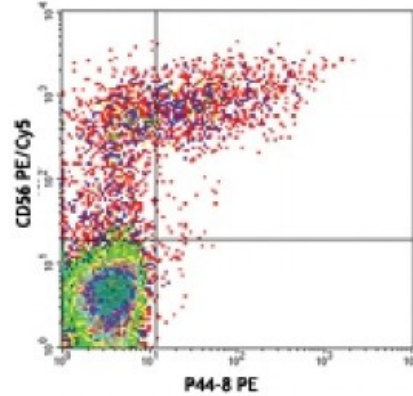
**Immunogen:** recombinant human NKp44

**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 PBMCs were stimulated with rhIL-2 for 7 days, then stained with P44-8 PE and CD56 PE/Cy5

**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:** 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/μg, Azide-Free, 0.2 μm 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 cytolysis 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.