SONY

Product Data Sheet

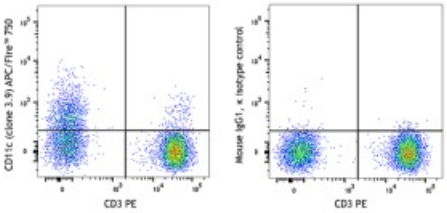
Purified anti-human CD336 (NKp44)

Catalog # / Size:	2225510 / 100 µg 2225505 / 25 µg
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.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Workshop Number:	VI CD86.8
Concentration:	0.5

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 ≤0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.



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 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/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

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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.

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