

Ultra-LEAF™ Purified anti-human CD336 (NKp44) Antibody

Catalog# / Size	325121 / 100 µg 325122 / 1 mg
Clone	P44-8
Regulatory Status	RUO
Other Names	NKp44, NCR2, Activating NK receptor NKp44, natural cytotoxicity triggering receptor 2, lymphocyte antigen 95 homolog
Isotype	Mouse IgG1, κ
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.

Product Details

Verified Reactivity	Human
Reported Reactivity	African Green, Baboon, Cynomolgus, Rhesus
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	recombinant human NKp44
Formulation	0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.01 EU/µg of the protein (<0.001 ng/µg of the protein) as determined by the LAL test.
Preparation	The Ultra-LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.
Concentration	The antibody is bottled at the concentration indicated on the vial, typically between 2 mg/mL and 3 mg/mL. Older lots may have also been bottled at 1 mg/mL. To obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. This Ultra-LEAF™ solution contains no preservative; handle under aseptic conditions.
Application	FC - Quality tested Block - Reported in the literature, not verified in house
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 ≤ 1.0 µg per million cells in 100 µl volume. 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/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 325104).
Application References	1. Sommaggio R, <i>et al.</i> 2012. <i>J. Immunol.</i> 188:2075. (Block) 2. Hoechst B, <i>et al.</i> 2009. <i>Hepatology.</i> 50:799. (Block) PubMed 3. Correia DV, <i>et al.</i> 2011. <i>Blood.</i> 118:992. (FC) PubMed
(PubMed link indicates BioLegend citation)	
RRID	AB_2819954 (BioLegend Cat. No. 325121)

Antigen Details

Structure	Type I transmembrane protein, member of the natural cytotoxicity receptor family, contains one immunoglobulin-like domain. Approximately 44 kD. Three isoforms produced by alternative splicing.
Distribution	IL-2 activated NK cells and cell lines, some γ/δ T cells activated <i>in vitro</i>
Function	NK cell triggering of cytolysis toward tumor targets and other target cells deficient in MHC class I molecules
Interaction	DAP12
Cell Type	NK cells, T cells
Biology Area	Immunology
Molecular Family	CD Molecules
Antigen References	<ol style="list-style-type: none"> 1. Cantoni C, <i>et al.</i> 1999. <i>J. Exp. Med.</i> 189:787. 2. Allcock RJN, <i>et al.</i> 2003. <i>Eur. J. Immunol.</i> 33:567. 3. Cantoni C, <i>et al.</i> 2003. <i>Structure.</i> 11:725.
Gene ID	9436

Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human CD336 (NKp44), Biotin anti-human CD336 (NKp44), PE anti-human CD336 (NKp44), APC anti-human CD336 (NKp44), Alexa Fluor® 647 anti-human CD336 (NKp44), PerCP/Cyanine5.5 anti-human CD336 (NKp44), PE/Cyanine7 anti-human CD336 (NKp44), TotalSeq™-C0802 anti-human CD336 (NKp44), Ultra-LEAF™ Purified anti-human CD336 (NKp44), TotalSeq™-A0802 anti-human CD336 (NKp44), APC/Cyanine7 anti-human CD336 (NKp44) Antibody, KIRAVIA Blue 520™ anti-human CD336 (NKp44), PE/Fire™ 810 anti-human CD336 (NKp44)

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