

PE/Cyanine5 anti-mouse CD335 (NKp46) Antibody

Catalog# / Size	137647 / 25 µg 137648 / 100 µg
Clone	29A1.4
Regulatory Status	RUO
Other Names	NKp46, NCR1
Isotype	Rat IgG2a, κ
Description	CD335, also known as NKp46, is a single-pass type I membrane protein of 46 kD. It belongs to the natural cytotoxicity receptor (NCR) family and contains two Ig-like (immunoglobulin-like) domains. It's expression is restricted to NK cells and a subset of NKT cells; it's not expressed in CD1d-restricted NKT cells. CD335 is a receptor for viral hemagglutinins and heparan sulfate proteoglycans and is involved in NK cell activation.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	NKP46-IgG1 Fc fusion protein
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography and conjugated with PE/Cyanine5 under optimal conditions.
Concentration	0.2 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
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.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	Additional reported applications (for the relevant formats) include: immunohistochemical staining of frozen tissue sections ^{1,2} and <i>in vitro</i> activation of NK cells ¹ .
Application References	1. Walzer T, <i>et al.</i> 2007. <i>P. Natl. Acad. Sci. USA</i> 104:3384. (FC, Activ) 2. Walzer T, <i>et al.</i> 2007. <i>Nat. Immunol.</i> 8:1337. (FC, Activ) 3. Guerriero JL, <i>et al.</i> 2011. <i>J. Immunol.</i> 186:3517. (IHC) PubMed
(PubMed link indicates BioLegend citation)	
RRID	AB_2894656 (BioLegend Cat. No. 137647) AB_2894656 (BioLegend Cat. No. 137648)

Antigen Details

Structure	Single-pass type I membrane protein, 46 kD; belongs to the natural cytotoxicity receptor (NCR) family; contains 2 Ig-like (immunoglobulin-like) domains
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Distribution	Mature and immature NK cells, subset of NKT cells, but not on CD1d-restricted NKT cells
Function	NK cells activation
Ligand/Receptor	Viral hemagglutinins, heparan sulfate proteoglycans
Cell Type	NK cells, NKT cells
Biology Area	Immunology, Innate Immunity
Molecular Family	CD Molecules
Antigen References	1. Colucci F and Cilio CM. 2010. <i>Nat Immunol.</i> 125:60. 2. Caligiuri MA. 2008. <i>Blood.</i> 112:461. 3. Colonna M. 2009. <i>Immunity.</i> 31:15.
Gene ID	17086

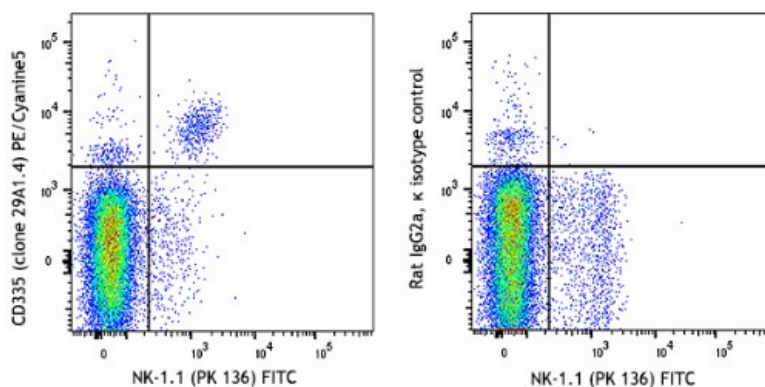
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Brilliant Violet 510™ anti-mouse CD335 (NKp46), Brilliant Violet 711™ anti-mouse CD335 (NKp46), PE anti-mouse CD335 (NKp46), PE/Cyanine7 anti-mouse CD335 (NKp46), Purified anti-mouse CD335 (NKp46), FITC anti-mouse CD335 (NKp46), APC anti-mouse CD335 (NKp46), PerCP/Cyanine5.5 anti-mouse CD335 (NKp46), Brilliant Violet 421™ anti-mouse CD335 (NKp46), Biotin anti-mouse CD335 (NKp46), Brilliant Violet 605™ anti-mouse CD335 (NKp46), Purified anti-mouse CD335 (NKp46) (Maxpar® Ready), Alexa Fluor® 647 anti-mouse CD335 (NKp46), PE/Dazzle™ 594 anti-mouse CD335 (NKp46), APC/Fire™ 750 anti-mouse CD335 (NKp46), Brilliant Violet 650™ anti-mouse CD335 (NKp46), TotalSeq™-A0184 anti-mouse CD335 (NKp46), Brilliant Violet 785™ anti-mouse CD335 (NKp46), Ultra-LEAF™ Purified anti-mouse CD335 (NKp46), TotalSeq™-B0184 anti-mouse CD335 (NKp46), TotalSeq™-C0184 anti-mouse CD335 (NKp46), APC/Cyanine7 anti-mouse CD335 (NKp46), PE/Cyanine5 anti-mouse CD335 (NKp46)

Product Data



C57BL/6 splenocytes were stained with anti-mouse NK-1.1 FITC and anti-mouse CD335 (clone 29A1.4) PE/Cyanine5 (left) or rat IgG2a, κ PE/Cyanine5 isotype control (right).

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