

Spark Red™ 718 anti-mouse CD335 (NKp46) Antibody

Catalog# / Size	137653 / 25 µg 137654 / 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 and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with Spark Red™ 718 under optimal conditions.
Concentration	0.5 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. * Spark Red™ 718 has a maximum excitation of 697 nm and a maximum emission of 711 nm.
Excitation Laser	Red Laser (633 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)	

Antigen Details

Structure	Single-pass type I membrane protein, 46 kD; belongs to the natural cytotoxicity receptor (NCR)
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family; contains 2 Ig-like (immunoglobulin-like) domains

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

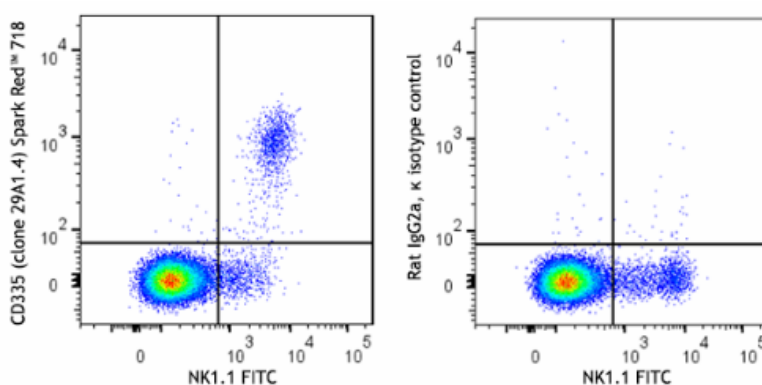
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

PE/Cyanine5 anti-mouse CD335 (NKp46), PerCP/Fire™ 806 anti-mouse CD335 (NKp46), PerCP/Fire™ 780 anti-mouse CD335 (NKp46), Purified anti-mouse CD335 (NKp46) (Maxpar® Ready), Alexa Fluor® 647 anti-mouse CD335 (NKp46), APC/Fire™ 750 anti-mouse CD335 (NKp46), PE/Dazzle™ 594 anti-mouse CD335 (NKp46), PE anti-mouse CD335 (NKp46), FITC anti-mouse CD335 (NKp46), Purified anti-mouse CD335 (NKp46), APC anti-mouse CD335 (NKp46), PerCP/Cyanine5.5 anti-mouse CD335 (NKp46), Brilliant Violet 711™ anti-mouse CD335 (NKp46), Spark Blue™ 574 anti-mouse CD335 (NKp46) (Flexi-Fluor™), Spark YG™ 593 anti-mouse CD335 (NKp46) (Flexi-Fluor™), Spark NIR™ 685 anti-mouse CD335 (NKp46) (Flexi-Fluor™), Spark Red™ 718 anti-mouse CD335 (NKp46), TotalSeq™-A0184 anti-mouse CD335 (NKp46), Brilliant Violet 650™ anti-mouse CD335 (NKp46), Brilliant Violet 785™ anti-mouse CD335 (NKp46), Biotin anti-mouse CD335 (NKp46), PE/Cyanine7 anti-mouse CD335 (NKp46), Ultra-LEAF™ Purified anti-mouse CD335 (NKp46), TotalSeq™-B0184 anti-mouse CD335 (NKp46), APC/Cyanine7 anti-mouse CD335 (NKp46), TotalSeq™-C0184 anti-mouse CD335 (NKp46), Brilliant Violet 510™ anti-mouse CD335 (NKp46), Spark Blue™ 550 anti-mouse CD335 (NKp46) (Flexi-Fluor™), Spark YG™ 581 anti-mouse CD335 (NKp46) (Flexi-Fluor™), Brilliant Violet 421™ anti-mouse CD335 (NKp46), Brilliant Violet 605™ anti-mouse CD335 (NKp46)

Product Data



C57BL/6 mouse splenocytes were stained with anti-mouse NK1.1 (clone PK136) FITC and anti-mouse CD335 (NKp46) (clone 29A1.4) Spark Red™ 718 (left) or rat IgG2a, κ Spark Red™ 718 isotype control (right).

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