

## APC/Fire™ 750 anti-mouse CD335 (NKp46) Antibody

<b>Catalog# / Size</b>	137631 / 25 µg 137632 / 100 µg
<b>Clone</b>	29A1.4
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	NKp46, NCR1
<b>Isotype</b>	Rat IgG2a, κ
<b>Description</b>	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

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<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<b>Immunogen</b>	NKP46-IgG1 Fc fusion protein
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 750 under optimal conditions.
<b>Concentration</b>	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our <a href="#">Concentration and Expiration Lookup</a> or <a href="#">Certificate of Analysis</a> online tools.)
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . 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.  * APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.
<b>Application Notes</b>	Additional reported applications (for the relevant formats) include: immunohistochemical staining of frozen tissue sections <sup>1,2</sup> and <i>in vitro</i> activation of NK cells <sup>1</sup> .
<b>Application References</b>	<ol style="list-style-type: none"><li>Walzer T, <i>et al.</i> 2007. <i>P. Natl. Acad. Sci. USA</i> 104:3384. (FC, Activ)</li><li>Walzer T, <i>et al.</i> 2007. <i>Nat. Immunol.</i> 8:1337. (FC, Activ)</li><li>Guerriero JL, <i>et al.</i> 2011. <i>J. Immunol.</i> 186:3517. (IHC) <a href="#">PubMed</a></li></ol>
<b>Product Citations</b>	<ol style="list-style-type: none"><li>Sweeney EE, <i>et al.</i> 2020. <i>Nano Res.</i> 13:736. <a href="#">PubMed</a></li><li>Li D, <i>et al.</i> 2020. <i>Immunohorizons.</i> 0.661805556. <a href="#">PubMed</a></li><li>Dubrot J, <i>et al.</i> 2021. <i>Immunity.</i> 54(3):571-585.e6. <a href="#">PubMed</a></li></ol>
<b>RRID</b>	AB_2617040 (BioLegend Cat. No. 137631) AB_2617041 (BioLegend Cat. No. 137632)

## Antigen Details

<b>Structure</b>	Single-pass type I membrane protein, 46 kD; belongs to the natural cytotoxicity receptor (NCR) family; contains 2 Ig-like (immunoglobulin-like) domains
<b>Distribution</b>	Mature and immature NK cells, subset of NKT cells, but not on CD1d-restricted NKT cells
<b>Function</b>	NK cells activation
<b>Ligand/Receptor</b>	Viral hemagglutinins, heparan sulfate proteoglycans
<b>Cell Type</b>	NK cells, NKT cells
<b>Biology Area</b>	Immunology, Innate Immunity
<b>Molecular Family</b>	CD Molecules
<b>Antigen References</b>	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.
<b>Gene ID</b>	<a href="#">17086</a>

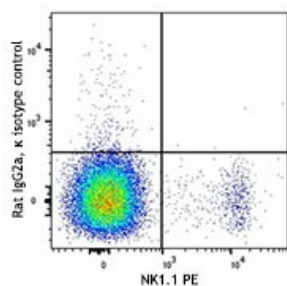
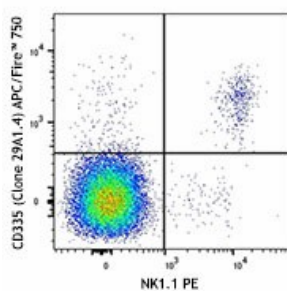
## Related Protocols

[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 NK1.1 PE and CD335 (clone 29A1.4) APC/Fire™ 750 (top) or rat IgG2a, κ APC/Fire™ 750 isotype control (bottom).

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