

Brilliant Violet 421™ anti-mouse CD335 (NKp46)

Catalog # / Size: 1288055 / 125 µl
1288060 / 50 µg

Clone: 29A1.4

Isotype: Rat IgG2a, κ

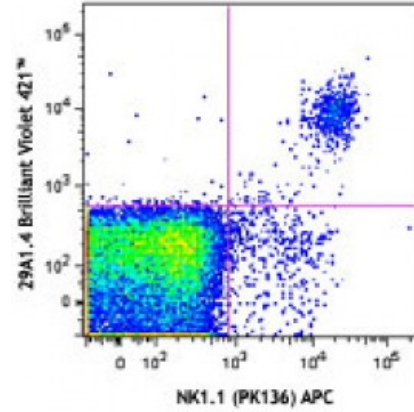
Immunogen: NKp46-IgG1 Fc fusion protein

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 421™ and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

Concentration: microg sizes: 0.2 mg/ml
microL sizes: lot-specific

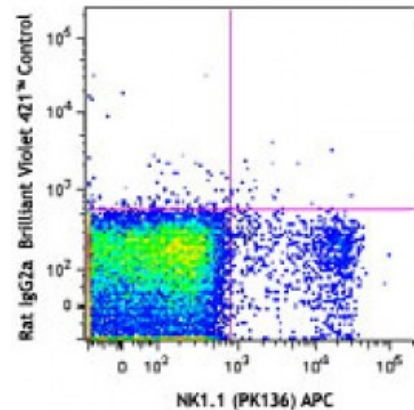


C57BL/6 splenocytes stained with NK1.1 APC and NKp46 (clone 29A1.4) Brilliant Violet 421™ (top) or rat IgG2a Brilliant Violet 421™ isotype control (bottom).

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining using the microg size, the suggested use of this reagent is ≤0.5 microg per million cells in 100 microL volume. For immunofluorescent staining using the microL size, the suggested use of this reagent is ≤5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.



Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd.

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prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.

Application Notes: Additional reported applications (for the relevant formats) include: immunohistochemical staining of frozen tissue sections^{1,2} and *in vitro* activation of NK cells¹.

Application References: 1. Walzer T, *et al.* 2007. *P. Natl. Acad. Sci. USA* 104:3384. (FC, Activ)
2. Walzer T, *et al.* 2007. *Nat. Immunol.* 8:1337. (FC, Activ)
3. Guerriero JL, *et al.* 2011. *J. Immunol.* 186:3517. (IHC) [PubMed](#)

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.

Antigen References: 1. Colucci F and Cilio CM. 2010. *Nat. Immunol.* 125:60.
2. Caligiuri MA. 2008. *Blood* 112:461.
3. Colonna M. 2009. *Immunity* 31:15.