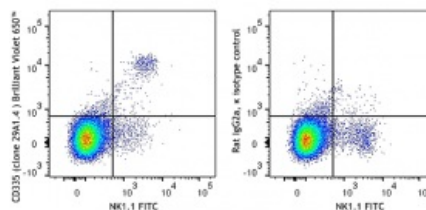


Brilliant Violet 650™ anti-mouse CD335 (NKp46)**Catalog # / Size:** 1288175 / 50 µg**Clone:** 29A1.4**Isotype:** Rat IgG2a, κ**Immunogen:** NKP46-IgG1 Fc fusion protein**Reactivity:** Mouse**Preparation:** The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 650™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 650™ and unconjugated antibody.**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).**Concentration:** 0.2 mg/ml

C57BL/6 splenocytes stained with NK1.1 (clone PK136) FITC and CD335 (NKp46)

Applications:**Applications:** Flow Cytometry**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 ≤ 0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 650™ excites at 405 nm and emits at 645 nm. The bandpass filter 660/20 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 650™ is a trademark of Sirigen Group Ltd.

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

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.