

# Alexa Fluor® 647 anti-mouse CD335 (NKp46)

**Catalog # /** 1288140 / 100 µg  
**Size:** 1288135 / 25 µg

**Clone:** 29A1.4

**Isotype:** Rat IgG2a, κ

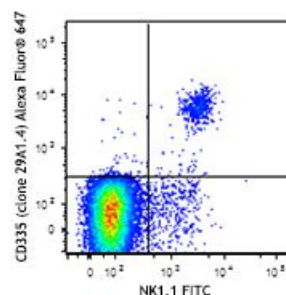
**Immunogen:** NKP46-IgG1 Fc fusion protein

**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 647 under optimal conditions.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.5



C57BL/6 mouse splenocytes were stained with NK1.1 FITC and CD335 (clone 29A1.4) Alexa Fluor® 647 (top) or rat IgG2a, κ Alexa Fluor® 647 isotype control (bottom).

## Applications:

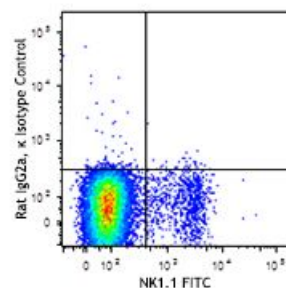
**Applications:** Flow Cytometry

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

\* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 nm.

**Application Notes:** Additional reported applications (for the relevant formats) include: immunohistochemical staining of frozen tissue sections<sup>1,2</sup> and *in vitro* activation of NK cells<sup>1</sup>.

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