

# CD335/NKp46 Rabbit mAb

**Catalog No.: A25145** Recombinant

## Basic Information

**Observed MW**
**Calculated MW**

21kDa/22kDa/23kDa/32kDa/34kDa

**Category**

Primary antibody

**Applications**

IF/ICC,FC,ELISA

**Cross-Reactivity**

Human

**CloneNo number**

ARC62449

## Background

The natural cytotoxic receptor (NCR) family includes NCR1 (NKp46/CD335), NCR2 (NKp44/CD336), and NCR3 (NKp30/CD337). They are type I single Transmembrane protein belonging to the immunoglobulin (Ig) superfamily. Various pathogenic and host coding molecules have been identified as ligands for NCR. They were initially discovered through their ability to induce cytotoxicity of natural killer (NK) cells to tumor cells in vitro, and animal models have shown that NCR plays a role in tumor monitoring, viral infection, and pregnancy in vivo. NCR1/NKP46 is considered a universal marker of NK cells, and recent studies have found that it is also expressed by other cells, such as the first group of natural lymphocytes (ILC1), a subgroup of the third group of ILC (NCR+ILC3), and  $\gamma\delta$  T cells. NCR1/NKp46 is also expressed in some malignant NK cells, natural killer T (NKT) cells and T-cell lymphoma, and is considered as a diagnostic marker and therapeutic target for them. The cross-linking of NCR1/NKp46 with antibodies can activate NK cells, which has been studied as a promising therapeutic pathway.

## Recommended Dilutions

**IF/ICC** 1:50-1:200

**FC** 1:100 - 1:500

**ELISA** Recommended starting concentration is 1  $\mu$ g/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

**Gene ID**

9437

**Swiss Prot**

O76036

**Immunogen**

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

**Synonyms**

NCR1; CD335; LY94; NK-p46; NKP46; natural cytotoxicity triggering receptor 1

## Contact

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## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

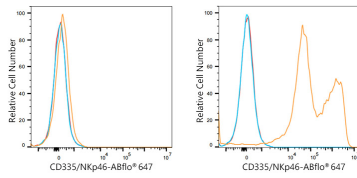
Affinity purification

**Storage**

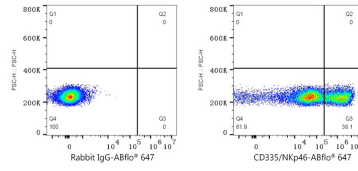
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

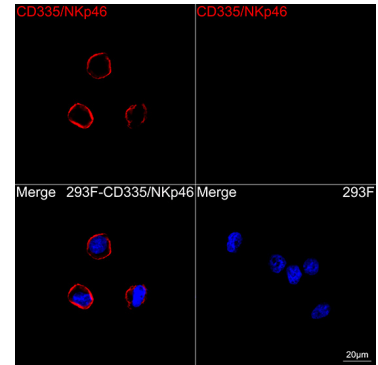
## Validation Data



Flow cytometry:  $1 \times 10^6$  293F cells (negative control, left) and 293F (Transfection, right) cells were surface-stained with CD335/NKp46 Rabbit mAb (A25145, 2  $\mu\text{g}/\text{mL}$ , orange line) or ABflo® 647 Rabbit IgG isotype control (A22070, 5  $\mu\text{l}/\text{Test}$ , blue line), followed by Alexa Fluor® 647 conjugated goat anti-rabbit pAb staining. Non-fluorescently stained cells were used as blank control (red line).



Flow cytometry:  $1 \times 10^6$  293F (Transfection) cells were surface-stained with ABflo® 647 Rabbit IgG isotype control (A22070, 5  $\mu\text{l}/\text{Test}$ , left) or CD335/NKp46 Rabbit mAb (A25145, 2  $\mu\text{g}/\text{mL}$ , right).



Confocal imaging of 293F cells transfected with CD335/NKp46 using CD335/NKp46 Rabbit mAb (A25145, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.