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CD335/NKp46 Rabbit mAb

Catalog No.: A25145 Recombinant

Basic Information

Observed MW
35-40kDa

Calculated MW
21kDa/22kDa/23kDa/32kDa/34kDa

Category
Primary antibody

Applications
WB,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 γδ 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

WB	1:500-1:1000
IF/ICC	1:50-1:200
FC	1:100 - 1:500
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
9437

Swiss Prot
O76036

Immunogen
Recombinant fusion protein containing a sequence corresponding to amino acids 22-254 of human CD335/NKp46(NP_004820.2).

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

Contact

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Product Information

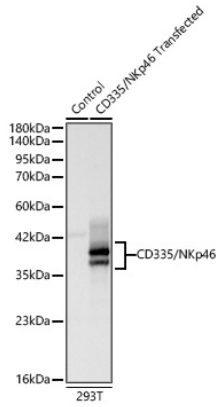
Source
Rabbit

Isotype
IgG

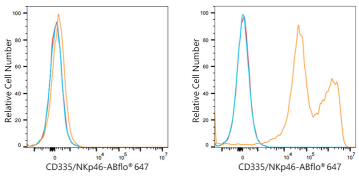
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

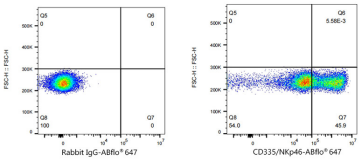
Validation Data



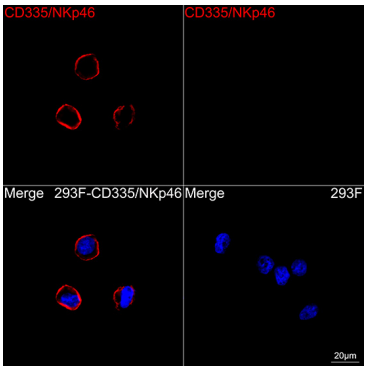
Western blot analysis of lysates from wild type (WT) and 293F cells transfected with CD335/NKp46 using CD335/NKp46 Rabbit mAb (A25145) at 1:1000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 20 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020)
.Exposure time: 30s.



Flow cytometry: 1X10^6 293F cells (negative control,left) and 293F (Transfection,right) cells were surface-stained with CD335/NKp46 Rabbit mAb (A25145,2 µg/mL,orange line) or ABflo® 647 Rabbit IgG isotype control (A22070,5 µl/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: 1X10^6 293F (Transfection) cells were surface-stained with ABflo® 647 Rabbit IgG isotype control (A22070,5 µl/Test,left) or CD335/NKp46 Rabbit mAb (A25145,2 µg/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.