

PE/Cyanine7 Rabbit anti-Human CD314 mAb

Catalog No.: A26768

Basic Information

Observed MW

Calculated MW

25kDa

Category

Primary antibody

Applications

FC

Cross-Reactivity

Human

CloneNo number

ARC67459-PE-Cy7

Conjugate

PE-Cy7. Ex:565nm. Em:778nm.

Recommended Dilutions

FC 5 μ l per 10^6 cells in
100 μ l volume

Background

Natural killer (NK) cells are lymphocytes that can mediate lysis of certain tumor cells and virus-infected cells without previous activation. They can also regulate specific humoral and cell-mediated immunity. NK cells preferentially express several calcium-dependent (C-type) lectins, which have been implicated in the regulation of NK cell function. The NKG2 gene family is located within the NK complex, a region that contains several C-type lectin genes preferentially expressed in NK cells. This gene encodes a member of the NKG2 family. The encoded transmembrane protein is characterized by a type II membrane orientation (has an extracellular C terminus) and the presence of a C-type lectin domain. It binds to a diverse family of ligands that include MHC class I chain-related A and B proteins and UL-16 binding proteins, where ligand-receptor interactions can result in the activation of NK and T cells. The surface expression of these ligands is important for the recognition of stressed cells by the immune system, and thus this protein and its ligands are therapeutic targets for the treatment of immune diseases and cancers. Read-through transcription exists between this gene and the upstream KLRG1 (killer cell lectin-like receptor subfamily G, member 1) family member in the same cluster.

Immunogen Information

Gene ID

22914

Swiss Prot

P26718

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 73-216 of human CD314 (NP_031386.2).

Synonyms

KLR; CD314; NKG2D; NKG2-D; D12S2489E

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

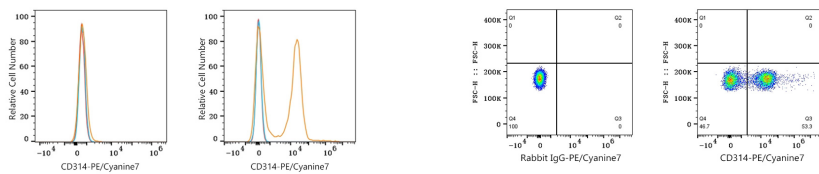
Affinity purification

Storage

Store at 2-8°C. Avoid freeze.

Buffer: PBS with 0.09% Sodium azide, 0.2% BSA, pH7.3.

Validation Data



Flow cytometry: 1×10^6 293T cells (negative control, left) and Human PBMC (right) were surface-stained with PE/Cyanine7 Rabbit anti-Human CD314 mAb (A26768, 5 μ l/Test, orange line) or PE/Cyanine7 Rabbit IgG isotype control (5 μ l/Test, blue line). Non-fluorescently stained cells were used as blank control (red line).

Flow cytometry: 1×10^6 Human PBMC were surface-stained with PE/Cyanine7 Rabbit IgG isotype control (5 μ l/Test, left) or PE/Cyanine7 Rabbit anti-Human CD314 mAb (A26768, 5 μ l/Test, right).