

## CD314 (NKG2D) (PTF0091) Mouse mAb

CatalogNo: YF0090 **Recombinant** 

### Key Features

#### Host Species

- Mouse

#### Reactivity

- Human

#### Applications

- FC,IF

#### Isotype

- Mouse IgG1/Kappa

### Storage

#### Storage\*

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

#### Formulation

PBS, pH 7.4

### Recommended Dilution Ratios

IF 1:200-1:1000

FC:1 µg per million cells in 100 µl volume. For optimal results, the reagent should be titrated according to each specific application

### Basic Information

**Clonality** Monoclonal

**Clone Number** PTF0091

### Immunogen Information

**Immunogen** The specific immunogen used to produce this antibody is proprietary information.

**Specificity** Endogenous

## Target Information

**Gene name** KLRK1 D12S2489E NKG2D

**Protein Name** NKG2-D type II integral membrane protein (Killer cell lectin-like receptor subfamily K member 1) (NK cell receptor D) (NKG2-D-activating NK receptor) (CD antigen CD314)

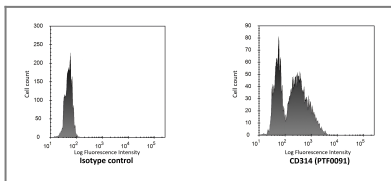
Organism	Gene ID	UniProt ID
Human	<a href="#">22914</a> ;	<a href="#">P26718</a> ;

**Cellular Localization** Cell membrane ; Single-pass type II membrane protein . Colocalized with HCST on the cell surface.

**Tissue specificity** Expressed in natural killer (NK) cells , CD8 (+) alpha-beta and gamma-delta T-cells. Expressed on essentially all CD56+CD3- NK cells from freshly isolated PBMC. Expressed in interferon-producing killer dendritic cells (IKDCs) .

**Function** Alternative products:A number of isoforms are produced ,Receptor for MICA , MICB , ULBP1 , ULBP2 , ULBP3 (ULBP2>ULBP1>ULBP3) and ULBP4. Plays a role as a receptor for the recognition of MHC class I HLA-E molecules by NK cells and some cytotoxic T-cells. Involved in the immune surveillance exerted by T- and B-lymphocytes. ,miscellaneous:Structurally distinct families of ligands for mouse and human NKG2D receptors have been characterized. They might be orthologs. ,online information:NKG-2D ,similarity:Contains 1 C-type lectin domain. ,subunit:Homodimer. Interacts with DAP10. The interaction with DAP10 is required for NKG2D cell surface expression. ,tissue specificity:Natural killer cells. Expressed on essentially all CD56+CD3- NK cells from freshly isolated PBMC. Also detected in gamma-delta cells and CD8+ alpha-beta T-cells. Expressed in interferon-producing killer dendritic cells (IKDCs) . ,

## Validation Data



Human peripheral blood lymphocytes stained with Mouse IgG1,  $\kappa$  isotype control or purified CD314 (PTF0091) , followed by anti-mouse IgGs-PE.

## Contact information

Orders: [order.cn@immunoway.com](mailto:order.cn@immunoway.com)  
Support: [support.cn@immunoway.com](mailto:support.cn@immunoway.com)  
Telephone: 400-8787-807(China)  
Website: <http://www.immunoway.com.cn>  
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



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