

**CD314 Polyclonal Antibody** 

Catalog # AP68936

#### Specification

## **CD314 Polyclonal Antibody - Product Information**

| Application<br>Primary Accession | <b>WB</b><br>P26718 |
|----------------------------------|---------------------|
| Reactivity                       | Human               |
| Host                             | Rabbit              |
| Clonality                        | Polyclonal          |

#### **CD314 Polyclonal Antibody - Additional Information**

Gene ID 22914

**Other Names** KLRK1; D12S2489E; NKG2D; 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

**Dilution** WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.

Format Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions** -20°C

## **CD314 Polyclonal Antibody - Protein Information**

Name KLRK1

Synonyms D12S2489E, NKG2D

#### Function

Functions as an activating and costimulatory receptor involved in immunosurveillance upon binding to various cellular stress- inducible ligands displayed at the surface of autologous tumor cells and virus-infected cells. Provides both stimulatory and costimulatory innate immune responses on activated killer (NK) cells, leading to cytotoxic activity. Acts as a costimulatory receptor for T-cell receptor (TCR) in CD8(+) T-cell-mediated adaptive immune responses by amplifying T-cell activation. Stimulates perforin-mediated elimination of ligand-expressing tumor cells. Signaling involves calcium influx, culminating in the expression of TNF-alpha. Participates in NK cell- mediated bone marrow graft rejection. May play a regulatory role in differentiation and survival of NK cells. Binds to ligands belonging to various subfamilies of MHC class I-related glycoproteins including MICA, MICB, RAET1E, RAET1G, RAET1L/ULBP6, ULBP1, ULBP2, ULBP3 (ULBP2>ULBP1>ULBP3) and ULBP4.



**Cellular Location** 

Cell membrane; Single-pass type II membrane protein Note=Colocalized with HCST on the cell surface

**Tissue Location** 

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).

### **CD314 Polyclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

#### **CD314 Polyclonal Antibody - Images**







# CD314 Polyclonal Antibody - Background

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