



[Go to Product page](#)

Datasheet for ABIN7193627  
**anti-KLRK1 antibody (AA 73-216)**

6 Images

Overview

Quantity:	0.1 mg
Target:	KLRK1
Binding Specificity:	AA 73-216
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This KLRK1 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), ELISA

Product Details

Immunogen:	Purified recombinant fragment of human CD314 (AA: extra 73-216) expressed in E. coli.
Clone:	5C9B4
Isotype:	IgG2a
Purification:	purified

Target Details

Target:	KLRK1
Alternative Name:	CD314 ( <a href="#">KLRK1 Products</a> )
Background:	Description: 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

## Target Details

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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 KLRC4 (killer cell lectin-like receptor subfamily C, member 4) family member in the same cluster.

Aliases: KLRK1, KLR, NKG2D, NKG2-D, D12S2489E

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Molecular Weight: 25.3 kDa

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Gene ID: 22914

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Pathways: [Activation of Innate immune Response](#), [Cellular Response to Molecule of Bacterial Origin](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#)

## Application Details

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Application Notes: WB:1:500 - 1:2000, FCM:1:200 - 1:400, ELISA:1:10000,

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Restrictions: For Research Use only

## Handling

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Buffer: Purified antibody in PBS with 0.05 % sodium azide

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Preservative: Sodium azide

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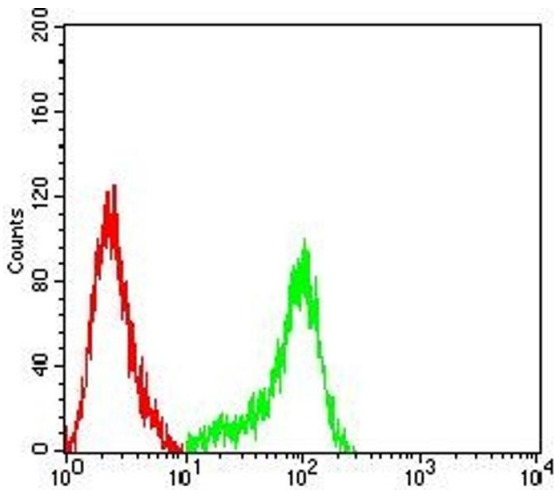
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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Storage: 4 °C/-20 °C

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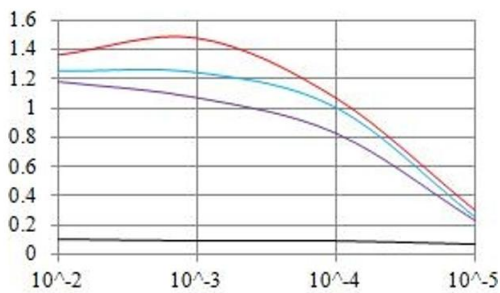
Storage Comment: 4°C, -20°C for long term storage



### Flow Cytometry

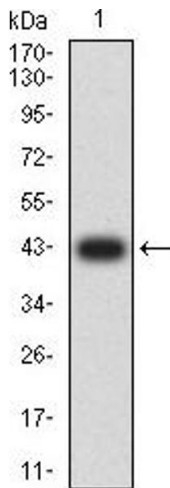
**Image 1.** Flow cytometric analysis of THP-1 cells using CD314 mouse mAb (green) and negative control (red).

### O.D. ELISA Result



### Serial Dilutions of Antibody

— Control Antigen = 100ng — Antigen = 10ng  
 — Antigen = 50ng — Antigen = 100ng



### ELISA

**Image 2.** Black line: Control Antigen (100 ng), Purple line: Antigen (10 ng), Blue line: Antigen (50 ng), Red line: Antigen (100 ng)

### Western Blotting

**Image 3.** Western blot analysis using CD314 mAb against human CD314 (AA: extra 73-216) recombinant protein. (Expected MW is 42.6 kDa)

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN7193627.