

**Product Name: CD314 Rabbit Polyclonal Antibody**  
**Catalog #: APRab08355**



## Summary

<b>Production Name</b>	CD314 Rabbit Polyclonal Antibody
<b>Description</b>	Rabbit Polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,ELISA
<b>Reactivity</b>	Human,Rat,Mouse

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

## Immunogen

<b>Gene Name</b>	KLRK1 KLRK1; D12S2489E; NKG2D; NKG2-D type II integral membrane protein; Killer cell
<b>Alternative Names</b>	lectin-like receptor subfamily K member 1; NK cell receptor D; NKG2-D-activating NK receptor; CD antigen CD314
<b>Gene ID</b>	22914.0
<b>SwissProt ID</b>	P26718.The antiserum was produced against synthesized peptide derived from human KLRK1. AA range:111-160

## Application

<b>Dilution Ratio</b>	WB 1:500 - 1:2000. ELISA: 1:10000
<b>Molecular Weight</b>	25kD

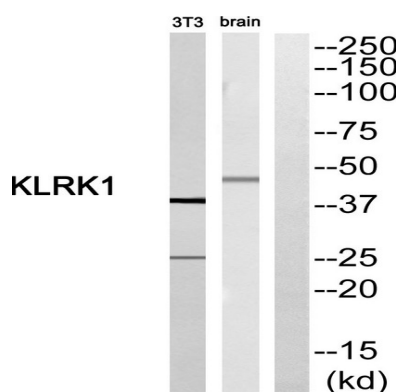
## Background

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 alternative products: A number of isoforms are produced, function: 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),

## Research Area

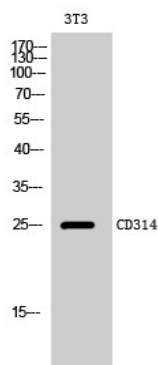
Natural killer cell mediated cytotoxicity;

## Image Data



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Western Blot analysis of 3T3 cells using CD314 Polyclonal Antibody

**Note**

For research use only.