Datasheet for ABIN6142979

# anti-KLRK1 antibody (AA 77-216)

1 Image

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## Overview

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|---|---|
| Quantity: | 100 µL |
| Target: | KLRK1 |
| Binding Specificity: | AA 77-216 |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This KLRK1 antibody is un-conjugated |
| Application: | Western Blotting (WB) |

## Product Details

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| Immunogen: | Recombinant fusion protein containing a sequence corresponding to amino acids 77-216 of human KLRK1 (NP_031386.2). |
| Sequence: | VFLNSLFNQE VQIPLTESYC GPCPKNWICY KNNCYQFFDE SKNWYESQAS CMSQNASLLK VYSKEDQDLL KLVKSYHWMG LVHIPTNGSW QWEDGSILSP NLLTIIEMQK GDCALYASSF KGYIENCSTP NTYICMQRTV |
| Isotype: | IgG |
| Cross-Reactivity: | Human, Mouse |
| Characteristics: | Polyclonal Antibodies |

## Target Details

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|---|---|
| Target: | KLRK1 |

## Target Details

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| Alternative Name: | KLRK1 (KLRK1 Products) |
| 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 KLRC4 (killer cell lectin-like receptor subfamily C, member 4) family member in the same cluster.,KLRK1,CD314,D12S2489E,KLR,NKG2-D,NKG2D,Immunology & Inflammation,CD markers,KLRK1 |
| Molecular Weight: | 25 kDa |
| Gene ID: | 22914 |
| UniProt: | P26718 |
| 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 |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |
| Buffer: | PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which |

## Handling

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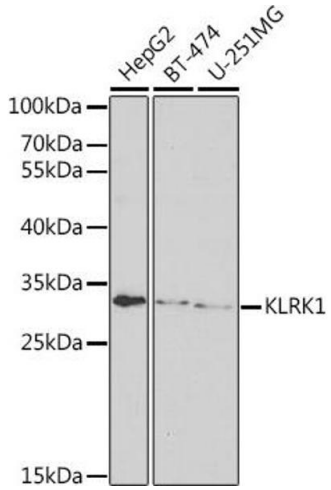
|---|---|
| | should be handled by trained staff only. |
| Storage: | -20 °C |
| Storage Comment: | Store at -20°C. Avoid freeze / thaw cycles. |

## Images




**Western Blotting**

**Image 1.** Western blot analysis of extracts of various cell lines, using KLRK1 antibody (ABIN6130074, ABIN6142979, ABIN6142980 and ABIN6221720) at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 90s.