

# Anti-CD314 Antibody

Catalog # AP95570

## Product Information

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|-------------------|--------------------------|
| Application       | FC, IF/IC                |
| Primary Accession | <a href="#">P26718</a>   |
| Reactivity        | Human                    |
| Host              | Mouse                    |
| Clonality         | Monoclonal (clone: 1D11) |
| Calculated MW     | 25304                    |

## Additional Information

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| Gene ID            | 22914                                                                                                                                                                       |
| Other Names        | 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; CD314 |
| Target/Specificity | Native purified human CD314                                                                                                                                                 |
| Dilution           | FC~~1:10~50 IF/IC~~N/A                                                                                                                                                      |
| Format             | Mouse IgG1 kappa. Liquid in PBS, pH 7.3, and 0.02% sodium azide.                                                                                                            |
| Storage            | Store at -20 °C.Stable for 12 months from date of receipt                                                                                                                   |

## Protein Information

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| 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. 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. |

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| <b>Cellular Location</b> | Cell membrane; Single-pass type II membrane protein Note=Colocalized with HCST on the cell surface                                                                                                                                |
| <b>Tissue Location</b>   | 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). |

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.