

# NKG2D Rabbit pAb

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Catalog # AP52047

## Product Information

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| <b>Application</b>             | WB                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Primary Accession</b>       | <a href="#">O70215</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Reactivity</b>              | Human, Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Predicted</b>               | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Host</b>                    | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Clonality</b>               | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Calculated MW</b>           | 24438                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Physical State</b>          | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Immunogen</b>               | KLH conjugated synthetic peptide derived from rat NKG2D                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Epitope Specificity</b>     | 121-219/219                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Isotype</b>                 | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Purity</b>                  | affinity purified by Protein A                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Buffer</b>                  | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>SUBCELLULAR LOCATION</b>    | Membrane; Single-pass type II membrane protein.                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Important Note</b>          | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.                                                                                                                                                                                                                                                                                                                                                       |
| <b>Background Descriptions</b> | This locus represents naturally occurring read-through transcription between the neighboring KLRC4 (killer cell lectin-like receptor subfamily C, member 4) and KLRK1 (killer cell lectin-like receptor subfamily K, member 1) genes on chromosome 12. The read-through transcript includes an alternate 5' exon and lacks a significant portion of the KLRC4 coding sequence, including the start codon, and it thus encodes the KLRK1 protein. [provided by RefSeq, Dec 2010] |

## Additional Information

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| <b>Gene ID</b>     | 24934                                                                                                                                                                                                                  |
| <b>Other Names</b> | NKG2-D type II integral membrane protein, Killer cell lectin-like receptor subfamily K member 1, NK cell receptor D, NK lectin-like receptor, NKLLR, NKG2-D-activating NK receptor, NKR-P2, CD314, Klrk1, Nkg2d, Nkrp2 |
| <b>Dilution</b>    | WB=1:500-2000,Flow-Cyt=2 µg/Test                                                                                                                                                                                       |
| <b>Storage</b>     | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.                        |

## Protein Information

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| <b>Name</b>              | Klrk1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Synonyms</b>          | Nkg2d, Nkrp2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Function</b>          | 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. |
| <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 by natural killer cells and by resting thoracic duct CD4+ and CD8+ T-cells, but not by thymocytes or other hemopoietic cells. Expressed by DC cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

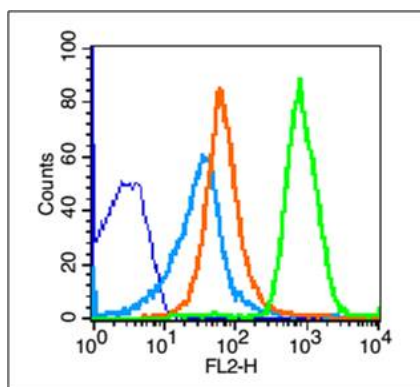
## Background

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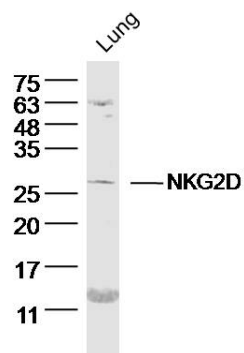
## References

Berg S.F.,et al.Int. Immunol. 10:379-385(1998).  
Alli R.,et al.Eur. J. Immunol. 34:1119-1126(2004).

## Images



Blank control (blue line): Mouse thymus cells (blue).  
Primary Antibody (green line): Rabbit Anti-NKG2D antibody (AP52047)  
Dilution: 1 µg /10<sup>6</sup> cells;  
Isotype Control Antibody (orange line): Rabbit IgG .  
Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE  
Dilution: 1 µg /test.  
Protocol  
The cells were fixed with 70% methanol (Overnight at 4°C) . Cells stained with Primary Antibody for 30 min at room temperature. The cells were then incubated in 1 X PBS/2%BSA/10% goat serum to block non-specific protein-protein interactions followed by the antibody for 15 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



Sample: Lung (Mouse) Lysate at 40 ug  
Primary: Anti- NKG2D (AP52047) at 1/300 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 25 kD  
Observed band size: 26 kD

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