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Rabbit Anti-NKG2D/Cy5.5 Conjugated antibody

SL20660R-Cy5.5

Product Name	Anti-NKG2D/Cy5.5
Chinese Name	Cy5.5 标记的 NK 细胞受体 2D 抗体
Alias	KLRK1; natural killer cell group 2D; NKG2-D isoform b; Klrk1; Nkrp2; NKG2-D type II integral membrane protein; NKG2-D-activating NK receptor; NK cell receptor D; Killer cell lectin-like receptor subfamily K; NK lectin-like receptor; CD314; CD314 antigen; D12S2489E; Killer cell lectin like receptor subfamily K member 1; Killer cell lectin-like receptor subfamily K member 1; KLR; Klrk1; NKG2 D activating NK receptor; NKG2 D type II integral membrane protein; NKG2-D-activating NK receptor; Nkg2d; NKG2D_HUMAN; NKLLR; NKR P2; Nkrp2.
Research Area	Cell biology immunology
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Mouse(predicted:Human,Rat,Pig)
Applications	Flow-Cyt=1ug/Test not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	25kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human NKG2D
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Product Detail

background:
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]

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.

Subunit:
Homodimer.

Subcellular Location:
Membrane; Single-pass type II membrane protein.

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).

Similarity:
Contains 1 C-type lectin domain.

Database links:

Entrez Gene: 100528032 Human

Entrez Gene: 22914 Human

Entrez Gene: 27007 Mouse

Entrez Gene: 24934 Rat

Omim: 611817 Human

SwissProt: P26718 Human

SwissProt: O54709 Mouse

SwissProt: O70215 Rat

Unigene: 387787 Human

Unigene: 8217 Mouse

Unigene: 14544 Rat

Important Note:
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

NKG2-D 出现在免疫细胞上表达的受体，NKG2D 属 C 型凝集素家族 Transmembrane protein，广泛表达在 NK 细胞、CD8+的 αβT 细胞和 γδT 细胞表面，可以提高 NK 细胞对 Tumour 细胞的杀伤活性。