

**CD314/NKG2D (PN0143) Nb-FC recombinant antibody**

<b>Catalog No :</b>	YA0280
<b>Reactivity :</b>	Human
<b>Applications :</b>	ELISA
<b>Target :</b>	CD314/NKG2D
<b>Gene Name :</b>	KLRK1 D12S2489E NKG2D
<b>Protein Name :</b>	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) (CD antigen CD314)
<b>Human Gene Id :</b>	22914
<b>Human Swiss Prot No :</b>	P26718
<b>Immunogen :</b>	Purified recombinant Human CD314
<b>Specificity :</b>	This recombinant monoclonal antibody can detects endogenous levels of CD314/NKG2D protein.
<b>Formulation :</b>	Phosphate-buffered solution
<b>Source :</b>	Camel, chimeric fusion of Nanobody (VHH) and mouse IgG1 Fc domain , recombinantly produced from 293F cell
<b>Dilution :</b>	ELISA 1:5000-100000
<b>Purification :</b>	Recombinant Expression and Affinity purified
<b>Concentration :</b>	Please check the information on the tube
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Avoid freeze / thaw cycles)
<b>Cell Pathway :</b>	Natural killer cell mediated cytotoxicity;

**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

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**Function :** alternative products: A number of isoforms are produced, 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).,

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**Subcellular Location :** Cell membrane ; Single-pass type II membrane protein . Colocalized with HCST on the cell surface.

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**Expression :** 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).

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