

## CD314 Polyclonal Antibody

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| <b>Catalog No :</b>          | YT5944   |
| <b>Reactivity :</b>          | Human;Rat;Mouse;   |
| <b>Applications :</b>        | IHC;IF;ELISA   |
| <b>Target :</b>              | CD314  |
| <b>Fields :</b>              | >>Natural killer cell mediated cytotoxicity;>>Malaria  |
| <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>Mouse Gene Id :</b>       | 27007  |
| <b>Mouse Swiss Prot No :</b> | O54709   |
| <b>Immunogen :</b>           | Synthetic peptide from human protein at AA range: 167-216  |
| <b>Specificity :</b>         | The antibody detects endogenous CD314  |
| <b>Formulation :</b>         | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  |
| <b>Source :</b>              | Polyclonal, Rabbit,IgG   |
| <b>Dilution :</b>            | IHC 1:50-200, ELISA 1:10000-20000. IF 1:50-200   |
| <b>Purification :</b>        | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.  |
| <b>Concentration :</b>       | 1 mg/ml  |

**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

**Cell Pathway :** 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,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.,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).

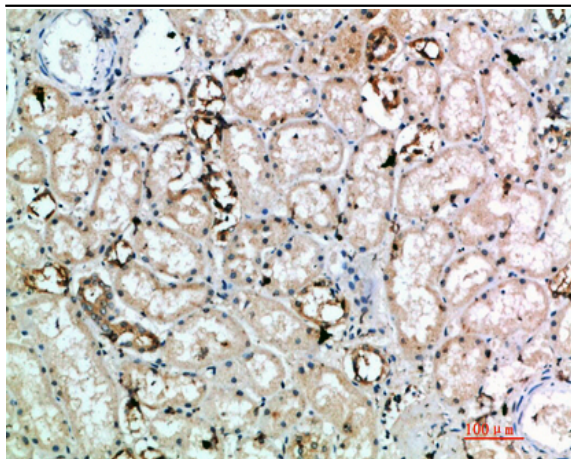
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**Subcellular Location :** Cell membrane ; Single-pass type II membrane protein . Colocalized with HCST on the cell surface.

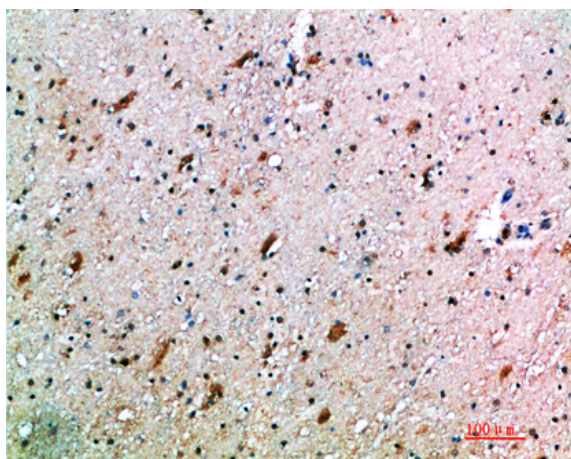
**Expression :** Expressed in natural killer (NK) cells, CD8(+) alpha-beta and gamma-delta T-cells. Expressed on essentially all CD56+CD3- NK cells from freshly isolated PBMC. Expressed in interferon-producing killer dendritic cells (IKDCs).

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## Products Images



Immunohistochemical analysis of paraffin-embedded human-kidney, antibody was diluted at 1:200



Immunohistochemical analysis of paraffin-embedded human-brain, antibody was diluted at 1:200