

CD314 Polyclonal Antibody

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| Catalog No : | YT0753 |
| Reactivity : | Human;Rat;Mouse; |
| Applications : | WB;ELISA |
| Target : | CD314 |
| Fields : | >>Natural killer cell mediated cytotoxicity;>>Malaria |
| Gene Name : | KLRK1 |
| Protein Name : | NKG2-D type II integral membrane protein |
| Human Gene Id : | 22914 |
| Human Swiss Prot No : | P26718 |
| Mouse Swiss Prot No : | O54709 |
| Immunogen : | The antiserum was produced against synthesized peptide derived from human KLRK1. AA range:111-160 |
| Specificity : | CD314 Polyclonal Antibody detects endogenous levels of CD314 protein. |
| Formulation : | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| Source : | Polyclonal, Rabbit,IgG |
| Dilution : | WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications. |
| Purification : | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| Concentration : | 1 mg/ml |
| Storage Stability : | -15°C to -25°C/1 year(Do not lower than -25°C) |

Observed Band : 25kD

Cell Pathway : Natural killer cell mediated cytotoxicity;

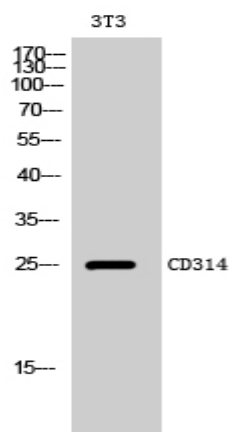
Background : Natural killer (NK) cells are lymphocytes that can mediate lysis of certain tumor cells and virus-infected cells without previous activation. They can also regulate specific humoral and cell-mediated immunity. NK cells preferentially express several calcium-dependent (C-type) lectins, which 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

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).

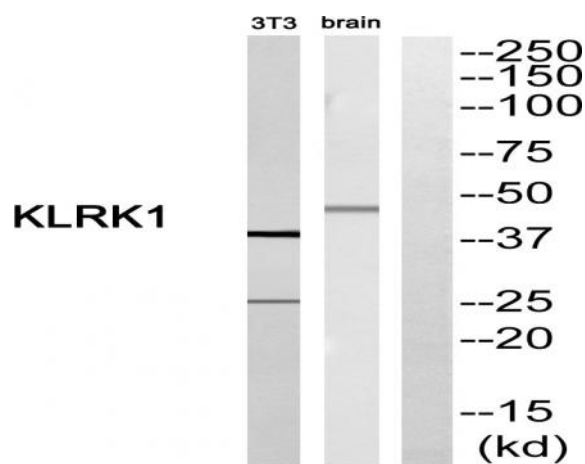
Subcellular Location : Cell membrane ; Single-pass type II membrane protein . Colocalized with HCST on the cell surface.

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).

Products Images



Western Blot analysis of 3T3 cells using CD314 Polyclonal Antibody



Western blot analysis of KLRK1 Antibody. The lane on the right is blocked with the KLRK1 peptide.