

## CD159a Polyclonal Antibody

|                              |   |
|------------------------------|---|
| <b>Catalog No :</b>          | YT0728  |
| <b>Reactivity :</b>          | Human   |
| <b>Applications :</b>        | WB;ELISA  |
| <b>Target :</b>              | CD159a  |
| <b>Fields :</b>              | >>Antigen processing and presentation;>>Natural killer cell mediated cytotoxicity;>>Graft-versus-host disease         |
| <b>Gene Name :</b>           | KLRC1   |
| <b>Protein Name :</b>        | NKG2-A/NKG2-B type II integral membrane protein   |
| <b>Human Gene Id :</b>       | 3821  |
| <b>Human Swiss Prot No :</b> | P26715  |
| <b>Immunogen :</b>           | The antiserum was produced against synthesized peptide derived from human KLRC1. AA range:1-50                        |
| <b>Specificity :</b>         | CD159a Polyclonal Antibody detects endogenous levels of CD159a protein.   |
| <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>            | WB 1:500 - 1:2000. ELISA: 1:40000. Not yet tested in other applications.  |
| <b>Purification :</b>        | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| <b>Concentration :</b>       | 1 mg/ml   |
| <b>Storage Stability :</b>   | -15°C to -25°C/1 year(Do not lower than -25°C)  |
| <b>Observed Band :</b>       | 28kD  |

**Cell Pathway :** Antigen processing and presentation;Natural killer cell mediated cytotoxicity;Graft-versus-host disease;

---

**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. The protein encoded by this gene belongs to the killer cell lectin-like receptor family, also called NKG2 family, which is a group of transmembrane proteins preferentially expressed in NK cells. This family of proteins is characterized by the type II membrane orientation and the presence of a C-type lectin domain. This protein forms a complex with another family member, KLRD1/CD94, and has been implicated in the recognition of the MHC class I HLA-E molecules in NK cells. The genes of NKG2 family members form a killer cell lectin-like receptor gene cluster on chromosome 12. Multiple alternatively spliced transcript variants encoding distinct isoforms have been observed. [provide

---

**Function :** function:Plays a role as a receptor for the recognition of MHC class I HLA-E molecules by NK cells and some cytotoxic T-cells.,online information:NKG-2A,similarity:Contains 1 C-type lectin domain.,subunit:Can form disulfide-bonded heterodimer with CD94.,tissue specificity:Natural killer cells.,

---

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

---

**Expression :** Predominantly expressed in NK cells (at protein level) (PubMed:9430220, PubMed:9485206, PubMed:20952657). Expressed in intraepithelial CD8-positive T cell subsets with higher frequency in gamma-delta T cells than alpha-beta T cells (at protein level) (PubMed:18064301). Expressed in memory gamma-delta T cells (at protein level) (PubMed:20952657). Restricted to a subset of memory/effector CD8-positive alpha-beta T cells (at protein level) (PubMed:12387742). Expressed in intratumoral NK and CD8-positive T cells (PubMed:30503213). Expressed in melanoma-specific cytotoxic T cell clones (at protein level) (PubMed:9485206). KLRD1-KLRC1 and KLRD1-KLRC2 are differentially expressed in NK and T cell populations, with only minor subsets expressing both receptor complexes (at protein level) (PubMed:20

---

**Sort :** 3407

---

**No4 :** 1

---

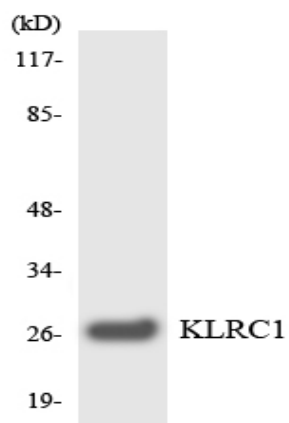
**Host :** Rabbit

---

**Modifications :** Unmodified

---

**Products Images**



Western blot analysis of the lysates from HepG2 cells using KLRC1 antibody.