

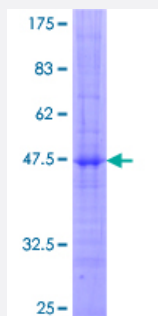
Full-Length

## KLRC1 (Human) Recombinant Protein (P01)

Catalog # H00003821-P01

Size 25 ug, 10 ug

### Applications



### Specification

|                                |                                                                                                                                                                                                                                                 |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>     | Human KLRC1 full-length ORF ( NP_002250.1, 1 a.a. - 233 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                   |
| <b>Sequence</b>                | MDNQGVYSDLNLPNPKRQQRKPKGNKSSILATEQEITYAELNLQKASQDFQGNDKTYHCKDLP<br>SAPEKLIVGILGIICILMASVVTIVIPSTLIQRHNNSSLNTRTQKARHCGHCPEEWITYSNSCYIGKE<br>RRTWEESLLACTSKNSSLLSIDNEEEMKFLSIISPSSWIGVFRNSSHHPWVTMNGLAFKHEIKDSD<br>NAELNCAVLQVNRKLSAQCGSSIYHCKHKL |
| <b>Host</b>                    | Wheat Germ (in vitro)                                                                                                                                                                                                                           |
| <b>Theoretical MW (kDa)</b>    | 52.7                                                                                                                                                                                                                                            |
| <b>Preparation Method</b>      | <a href="#">in vitro wheat germ expression system</a>                                                                                                                                                                                           |
| <b>Purification</b>            | Glutathione Sepharose 4 Fast Flow                                                                                                                                                                                                               |
| <b>Quality Control Testing</b> | 12.5% SDS-PAGE Stained with Coomassie Blue.                                                                                                                                                                                                     |
| <b>Storage Buffer</b>          | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                        |
| <b>Storage Instruction</b>     | Store at -80°C. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                 |
| <b>Note</b>                    | Best use within three months from the date of receipt of this protein.                                                                                                                                                                          |

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — KLRC1

Entrez GeneID [3821](#)

GeneBank Accession# [NM\\_002259.3](#)

Protein Accession# [NP\\_002250.1](#)

Gene Name KLRC1

Gene Alias CD159A, MGC13374, MGC59791, NKG2, NKG2A

Gene Description killer cell lectin-like receptor subfamily C, member 1

Omim ID [161555](#)

Gene Ontology [Hyperlink](#)

**Gene Summary**

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. Four alternatively spliced transcript variants encoding two distinct isoforms have been observed. [provided by RefSeq]

**Other Designations**

C-lectin type II protein|NK cell receptor A|NKG2-1/B activating NK receptor|NKG2-A/B type II integral membrane protein|natural killer cell lectin|natural killer group protein 2

## Pathway

- [Antigen processing and presentation](#)
- [Graft-versus-host disease](#)
- [Natural killer cell mediated cytotoxicity](#)

## Disease

- [Abortion](#)
- [Arthritis](#)
- [Behcet Syndrome](#)
- [Genetic Predisposition to Disease](#)
- [Hepatitis B](#)
- [Lupus Erythematosus](#)
- [Tobacco Use Disorder](#)