

Proteoliposomes

Full-Length

# KIR2DS1 (Human) Recombinant Protein

Catalog # H00003806-G01

Size 2 ug

## Specification

|                      |                                                                                                                                                                                                                                                                                                                              |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Description  | Human KIR2DS1 full-length ORF (AAI66637.1) recombinant protein without tag.<br>This product is belong to Proteoliposome (PL).                                                                                                                                                                                                |
| Sequence             | MSLTVVSMACVGFFLLQGAWPHEGVHRKPSLLAHPGRLVKSEETVILQCWSDVMFEHFLHRE<br>GMFNDTLRLIGEHHDGVSKANFSISRMKQDLAGTYRCYGSVTHSPYQLSAPSDPLDVIIGLYEKPS<br>LSAQPGPTVLAGENVTLSCSSRSSYDMYHLSREGEAHERRLPAGTKVNGTFQANFPLGPATHGG<br>TYRCFGSFRDSPYEWKSSDPLLVSVTGNPSNSWSPTEPSSETGNPRHLHVLIGTSVVKIPFTIL<br>LFFLLHRWCSDKKNAAVMDQEPAGNRTVNSEDSDEQDHQEVSYA |
| Host                 | Wheat Germ (in vitro)                                                                                                                                                                                                                                                                                                        |
| Theoretical MW (kDa) | 33.5                                                                                                                                                                                                                                                                                                                         |
| Form                 | Liquid                                                                                                                                                                                                                                                                                                                       |
| Preparation Method   | <a href="#">in vitro wheat germ expression system with proprietary liposome technology</a>                                                                                                                                                                                                                                   |
| Purification         | None                                                                                                                                                                                                                                                                                                                         |
| Recommend Usage      | Heating may cause protein aggregation. Please do not heat this product before electrophoresis.                                                                                                                                                                                                                               |
| Storage Buffer       | 25 mM Tris-HCl of pH8.0 containing 2% glycerol.                                                                                                                                                                                                                                                                              |
| Storage Instruction  | Store at -80°C. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                                                              |
| Note                 | Best use within three months from the date of receipt of this protein.                                                                                                                                                                                                                                                       |

## Applications

- Antibody Production

Recommended usage only, not validated yet.

## Gene Info — KIR2DS1

Entrez GeneID [3806](#)

GeneBank Accession# [BC166637.1](#)

Protein Accession# [AA166637.1](#)

Gene Name KIR2DS1

Gene Alias CD158H, CD158a, p50.1

Gene Description killer cell immunoglobulin-like receptor, two domains, short cytoplasmic tail, 1

Omim ID [604952](#)

Gene Ontology [Hyperlink](#)

**Gene Summary**

Killer cell immunoglobulin-like receptors (KIRs) are transmembrane glycoproteins expressed by natural killer cells and subsets of T cells. The KIR genes are polymorphic and highly homologous and they are found in a cluster on chromosome 19q13.4 within the 1 Mb leukocyte receptor complex (LRC). The gene content of the KIR gene cluster varies among haplotypes, although several "framework" genes are found in all haplotypes (KIR3DL3, KIR3DP1, KIR3DL4, KIR3DL2). The KIR proteins are classified by the number of extracellular immunoglobulin domains (2D or 3D) and by whether they have a long (L) or short (S) cytoplasmic domain. KIR proteins with the long cytoplasmic domain transduce inhibitory signals upon ligand binding via an immune tyrosine-based inhibitory motif (ITIM), while KIR proteins with the short cytoplasmic domain lack the ITIM motif and instead associate with the TYRO protein tyrosine kinase binding protein to transduce activating signals. The ligands for several KIR proteins are subsets of HLA class I molecules; thus, KIR proteins are thought to play an important role in regulation of the immune response. [provided by RefSeq]

**Other Designations** KIR2DL1-KIR2DS1|killer-cell immunoglobulin-like receptor

## Pathway

- [Antigen processing and presentation](#)
- [Natural killer cell mediated cytotoxicity](#)

## Disease

- [Abortion](#)
- [Acute Disease](#)

- [Angina Pectoris](#)
- [Arthritis](#)
- [Autoimmune Diseases](#)
- [Bacterial Infections](#)
- [Behcet Syndrome](#)
- [Cadaver](#)
- [Carcinoma](#)
- [Chronic Disease](#)
- [Cytomegalovirus Infections](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Familial Mediterranean fever](#)
- [Gastritis](#)
- [Genetic Predisposition to Disease](#)
- [Graft vs Host Disease](#)
- [Graves Disease](#)
- [Hemorrhagic Fever](#)
- [Hepatitis B](#)
- [Hepatitis C](#)
- [HIV Infections](#)
- [Ischemic Attack](#)
- [Leprosy](#)
- [Leptospirosis](#)
- [Leukemia](#)
- [Liver Cirrhosis](#)
- [Liver Neoplasms](#)

- [Lung Neoplasms](#)
- [Lupus Erythematosus](#)
- [Lymphocytosis](#)
- [Lymphoma](#)
- [Multiple Sclerosis](#)
- [Myocardial Infarction](#)
- [Neuroblastoma](#)
- [Osteoarthritis](#)
- [Papilloma](#)
- [Papillomavirus Infections](#)
- [Paraparesis](#)
- [Peripheral Vascular Diseases](#)
- [Postoperative Complications](#)
- [Pre-Eclampsia](#)
- [Psoriasis](#)
- [Recurrence](#)
- [Scleroderma](#)
- [Spondylarthropathies](#)
- [Spondylitis](#)
- [Stroke](#)
- [Syndrome](#)
- [Tumor Virus Infections](#)
- [Uveitis](#)
- [Uveomeningoencephalitic Syndrome](#)
- [Vasculitis](#)