

## KIR3DS1 Knockout cell line (HCT 116)

**Catalog Number:** KO36916

| Product Information        |                                                                                                                                                                               |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name               | KIR3DS1 Knockout cell line (HCT 116)                                                                                                                                          |
| specification              | 1*10 <sup>6</sup>                                                                                                                                                             |
| Storage and transportation | Dry ice preservation/T25 live cell transportation.                                                                                                                            |
| Cell morphology            | Epithelioid, adherent cell                                                                                                                                                    |
| Passage ratio              | 1:2~1:4                                                                                                                                                                       |
| species                    | Human                                                                                                                                                                         |
| Gene                       | KIR3DS1                                                                                                                                                                       |
| Gene ID                    | 3813                                                                                                                                                                          |
| Build method               | Electric rotation method / virus method                                                                                                                                       |
| Mycoplasma testing         | Negative                                                                                                                                                                      |
| Cultivation system         | 90%McCOYs 5A+10% FBS                                                                                                                                                          |
| Parental Cell Line         | HCT 116                                                                                                                                                                       |
| Quality Control            | Genotype: KIR3DS1 Knockout cell line (HCT 116) >95% viability before freezing. All cells were tested and found to be free of bacterial, viruses, mycoplasma and other toxins. |

| Gene Information        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Official Full Name | killer cell immunoglobulin like receptor, three Ig domains and short cytoplasmic tail 1 provided by HGNC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Also known as           | KIR-G1; NKAT10; CD158E2; NKAT-10; KIR-123FM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Gene Description        | 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. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2013]