

Recombinant Rat Klrd1 Protein, His-tagged

Cat. No. Klrd1-11049R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rat CD94 Protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Lys 32 - Thr 179 (Accession # O35778). This protein carries a polyhistidine tag at the C-terminus.
Species	Rat
Source	HEK293
ProteinLength	32-179 aa
Description	CD94(Natural killer cells antigen CD94) is also known as KLRD1, KP43, NK cell receptor, Killer cell lectin-like receptor subfamily D member 1. CD94 plays a role as a receptor for the recognition of MHC class I HLA-E molecules by NK cells and some cytotoxic T-cells. KLRD1 (CD94) is an antigen preferentially expressed on NK cells and is classified as a type II membrane protein because it has an external C terminus. CD94 pairs with the NKG2 molecule as a heterodimer. The CD94/NKG2 complex, on the surface of natural killer cells interacts with Human Leukocyte Antigen (HLA)-E on target cells.
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.
Molecular Mass	The protein has a calculated MW of 19.3 kDa. The protein migrates as 23-33 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

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Endotoxin	Less than 1.0 EU/μg by the LAL method/rFC method.
Purity	>90% as determined by SDS-PAGE.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	Klrd1 killer cell lectin-like receptor, subfamily D, member 1 [<i>Rattus norvegicus</i>]
Official Symbol	Klrd1
Synonyms	KLRD1; killer cell lectin-like receptor, subfamily D, member 1; natural killer cells antigen CD94; CD94 antigen (located within the rat natural killer gene complex); Cd94;
Gene ID	25110
mRNA Refseq	NM_012745
Protein Refseq	NP_036877
UniProt ID	O35778

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