Active Recombinant Human Killer Cell Lectin-Like Receptor Subfamily K, Member 1, Fc-tagged

Cat. No. KLRK1-5673H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human KLRK1protein was expressed in Murine myeloma cell line with the Fc part of humanIgG1 Pro100-Lys330 (N-terminus) and Phe78-Val216 (C-terminus).
Species	Human
Source	Mammalian Cells
ProteinLength	78-216 a.a.
Description	KLRK1 is a type IItransmembrane glycoprotein having an extracellular lectin-like domain. Thisdomain lacks the recognizable calcium-binding sites found in true C-typelectins and binds protein rather than carbohydrate ligands. Human KLRK1 isexpressed on CD8+ αβ T cells, γδ T cells, NK cells and NKT cells. In mousesystems KLRK1 also occurs on macrophages. Human ligands for KLRK1 includeMICA, MICB, and ULBP1, 2, and 3. Expression of KLRK1 ligands occurs inepithelial cells, tumor cells and under conditions of stress or infection.
Form	Lyophilized from a0.2 μm filtered solution in PBS.
N-terminalSequence	Met
Molecular Weight	43 kDa

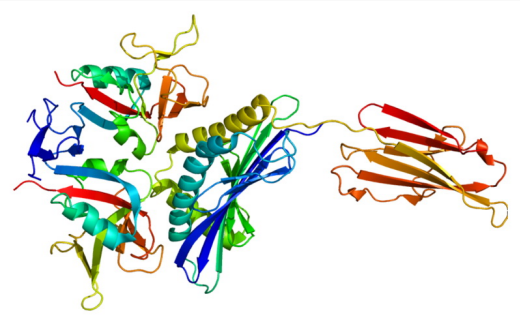
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Activity	Measuredby its ability to bind its ligand, rhMICA/Fc Chimera in a functional ELISA.
Endotoxin Level	<1.0 EUper 1 μg of the protein by the LAL method.
SDS-PAGE	50-55kDa, reducing conditions.
Purity	>90%,by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	100μg/mL in sterile PBS
Storage	Use amanual defrost freezer and avoid repeated freeze-thaw cycles. 12 months fromdate of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterileconditions after reconstitution. 3 months, -20 to -70°C under sterileconditions after reconstitution.

GENE INFORMATION

Gene Name	KLRK1 killer cell lectin-likereceptor subfamily K, member 1 [Homo sapiens]
Official Symbol	KLRK1
Synonyms	KLRK1; killer cell lectin-likereceptor subfamily K, member 1; KLR; CD314; NKG2D; NKG2-D; D12S2489E;FLJ17759; FLJ75772; NKG2-D type II integral membrane protein; NK cell receptorD; NKG2-D-activating NK receptor; Killer cell lectin-like receptor subfamilyK member 1; DNA segment on chromosome 12 (unique) 2489 expressed sequence;OTTHUMP00000239062; OTTHUMP00000239064; CD314 antigen
Gene ID	22914
mRNA Refseq	NM_007360

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Protein Refseq	NP_031386
MIM	611817
UniProt ID	P26718
Chromosome Location	12p13.2-p12.3
Pathway	Adaptive ImmuneSystem; Immune System; Immunoregulatory interactions between a Lymphoid and anon-Lymphoid cell; Malaria; Natural killer cell mediated cytotoxicity
PDBrendering based on 1hyr.	

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