Recombinant Human KIR3DL1 cell lysate

Cat. No. KIR3DL1-935HCL **Lot. No.** (See product label)

SPECIFICATION

Species	Human
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.
Size	100 ul
Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Applications	Western Blot;

GENE INFORMATION

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Gene Name	KIR3DL1 killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 1 [Homo sapiens]
Official Symbol	KIR3DL1
Synonyms	KIR3DL1; killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 1; KIR; killer cell immunoglobulin-like receptor 3DL1; AMB11; CD158e1; CD158e1/2; CD158e2; cl 2; cl 11; nkat3; NKB1; NKB1B; NKAT-3; NK-receptor; KIR antigen 3DL1; killer Ig receptor; p70 NK receptor CL-2/CL-11; MHC class I NK cell receptor; CD158 antigen-like family member E; p70 killer cell inhibitory receptor; natural killer-associated transcript 3; HLA-BW4-specific inhibitory NK cell receptor; p70 natural killer cell receptor clones CL-2/CL-11; NKAT3; CD158E1; KIR3DL1/S1; MGC119726; MGC119728; MGC126589; MGC126591;
Gene ID	3811
mRNA Refseq	NM_013289
Protein Refseq	NP_037421
MIM	604946
UniProt ID	P43629
Chromosome Location	19q13.4
Pathway	Adaptive Immune System, organism-specific biosystem; Antigen processing and presentation, organism-specific biosystem; Antigen processing and presentation, conserved biosystem; Graft-versus-host disease, organism-specific biosystem; Graft-versus-host disease, conserved biosystem; Immune System, organism-specific

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	biosystem; Immunoregulatory interactions between a Lymphoid and a non-Lymphoid cell, organism-specific biosystem;
Function	HLA-B specific inhibitory MHC class I receptor activity; receptor activity;

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