

CD158a Polyclonal Antibody

Catalog No :	YT5618
Reactivity :	Human;Rat;Mouse;
Applications :	WB;ELISA
Target :	CD158a
Fields :	>>Antigen processing and presentation;>>Natural killer cell mediated cytotoxicity;>>Graft-versus-host disease
Gene Name :	KIR2DL1
Protein Name :	Killer cell immunoglobulin-like receptor 2DL1
Human Gene Id :	3802
Human Swiss Prot No :	P43626
Immunogen :	The antiserum was produced against synthesized peptide derived from the Internal region of human KIR2DL1. AA range:131-180
Specificity :	CD158a Polyclonal Antibody detects endogenous levels of CD158a protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	39kD

Cell Pathway :

Antigen processing and presentation;Natural killer cell mediated cytotoxicity;Graft-versus-host disease;

Background :

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

Function :

function:Receptor on natural killer (NK) cells for HLA-C alleles. Inhibits the activity of NK cells thus preventing cell lysis.,miscellaneous:PubMed:15580659, identified a chromosomal rearrangement producing a recombinant gene composed of the promoter and first exon of KIR2DL5A fused to KIR3DP1 which was originally thought to be a pseudogene. This leads to the expression in 4.5 percent of a Spanish Caucasoid population of an mRNA which may encode a chimeric protein KIR2DL5A/KIR3DP1.,similarity:Belongs to the immunoglobulin superfamily.,similarity:Contains 2 Ig-like C2-type (immunoglobulin-like) domains.,similarity:Contains 3 Ig-like C2-type (immunoglobulin-like) domains.,tissue specificity:Expressed in peripheral blood cells.,

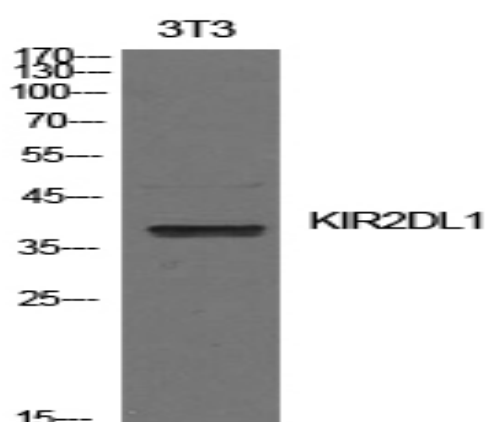
Subcellular Location :

Cell membrane ; Single-pass type I membrane protein.

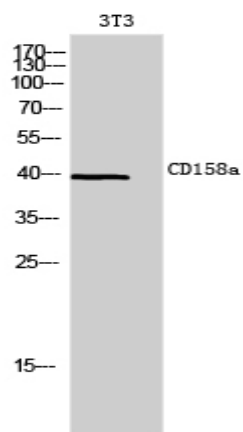
Expression :

Expressed by NK cells.

Products Images



Western Blot analysis of NIH-3T3 cells using CD158a Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Western Blot analysis of 3T3 cells using CD158a Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000