

AM26776RP-N**Monoclonal Antibody to CD158F / KIR2DL5A - PE**

Alternate names:	CD158F1, KIR2DL5, Killer cell immunoglobulin-like receptor 2DL5A
Quantity:	100 Tests
Background:	CD158f, also known as KIR2DL5, is a polymorphic 60 kDa transmembrane glycoprotein with two Ig-like extracellular domains by which it recognize HLA class I molecules. Its long intracellular domain contains immunoreceptor tyrosine-based inhibitory motifs (ITIMs) that upon extracellular ligand-mediated phosphorylation serve as docking sites for inhibitory phosphatases, which results in blocking natural cytotoxicity as well as antibody-dependent cytotoxicity of the particular NK cell, and its adhesion toward target cells. Together with other killer inhibitory receptors CD158f is important for immunological tolerance to discriminate between normal and abnormal cells. Besides NK cells it is expressed on a small population of cytotoxic T cells. Expression of CD158f alleles is highly variable in the population.
Uniprot ID:	Q8N109
NCBI:	NP_065396.1
GeneID:	57292
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10R (for use in human samples)
Clone:	UP-R1
Immunogen:	Human CD158f-Ig fusion protein
Format:	State: Liquid purified Ig fraction Buffer System: Phosphate buffered saline (PBS) Preservatives: 15 mM sodium azide Stabilizers: 0.2% (w/v) high-grade protease free Bovine Serum Albumin (BSA) Label: PE
Applications:	Flow Cytometry analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognizes CD158f (KIR2DL5), a 60 kDa glycoprotein serving as a HLA class I ligand, and mainly expressed on a subset of NK cells and a small population of T cells. Its expression is highly polymorphic between individuals.
Species Reactivity:	Tested: Human
Storage:	Store the antibody at 2-8°C. DO NOT FREEZE! This product is photosensitive and should be protected from light. Shelf life: one year from despatch.

General Readings:

1. Du Z, Sharma SK, Spellman S, Reed EF, Rajalingam R. KIR2DL5 alleles mark certain combination of activating KIR genes. *Genes Immun.* 2008 Jul;9(5):470-80. doi: 10.1038/gene.2008.39. Epub 2008 May 29. PubMed PMID: 18509341.
2. Yusa S, Catina TL, Campbell KS. KIR2DL5 can inhibit human NK cell activation via recruitment of Src homology region 2-containing protein tyrosine phosphatase-2 (SHP-2). *J Immunol.* 2004 Jun 15;172(12):7385-92. PubMed PMID: 15187115.
3. Estefanía E, Flores R, Gómez-Lozano N, Aguilar H, López-Botet M, Vilches C. Human KIR2DL5 is an inhibitory receptor expressed on the surface of NK and T lymphocyte subsets. *J Immunol.* 2007 Apr 1;178(7):4402-10. PubMed PMID: 17371997.