EXBIO Antibodies

PRODUCT DATA SHEET

11-774-C025

Monoclonal Antibody to CD158f Purified Antibody (0.025 mg)

Clone:	UP-R1
Isotype:	Mouse IgG1
Specificity:	The mouse monoclonal antibody UP-R1 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.
Regulatory Status:	RUO
Immunogen:	Human CD158f-Ig fusion protein
Species Reactivity:	Human
Application:	Flow Cytometry Immunocytochemistry
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified by protein-A affinity chromatography
Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Expiration:	See vial label
Lot Number:	See vial label
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.
References:	*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. *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. *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.

For laboratory research only, not for drug, diagnostic or other use.

EXBIO Praha | Nad Safinou II 341 | 252 50 Vestec u Prahy | Czech Republic
Tel: +420 261 090 666 | Fax: +420 261 090 660 | orders@exbio.cz | www.exbio.cz