PE anti-human CD158k (KIR3DL2) Antibody

Catalog# / Size	389603 / 25 tests 389604 / 100 tests
Clone	S22025B
Regulatory Status	RUO
Other Names	NKAT4, Killer Cell Immunoglobulin-Like Receptor 3DL2
Isotype	Mouse IgG1, κ
Description	CD158 molecules, also known as KIRs (killer cell immunoglobulin-like receptors), are a family of transmembrane proteins with either two (KIR2D) or three (KIR3D) Ig-like extracellular domains. Some KIRs with long cytoplasmic domains contain ITIMs and possess inhibitory functions and others with short cytoplasmic region lack ITIM and have activation functions. 15 polymorphic KIR genes have been reported in humans. CD158k is a 70 kD three extracellular Ig domain glycoprotein that presents as a disulphide-bonded homodimer extracellularly. The intracellular long cytoplasmic tail of CD158k contains two ITIM domains. It is expressed primarily on a subset of NK cells and a subset of T cells. KIR3DL2 binds to a number of different MHC class 1 molecules depending on the viral peptide sequence presented.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	KIR3DL2-transfected cells
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. **Do not freeze**.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	Based on in-house testing on different KIR-expressing transfectants, clone S22025B does not interact with other KIR protein family members.
RRID	AB_3699043 (BioLegend Cat. No. 389603) AB_3699043 (BioLegend Cat. No. 389604)

Antigen Details

Structure	70 kD three Ig-like extracellular domain glycoprotein

Distribution	Subset of NK cells, subset of T cells
Function	NK Cell regulation
Ligand/Receptor	MHC Class 1 molecules
Cell Type	Lymphocytes, NK cells, T cells
Biology Area	Cell Biology, Immunology, Innate Immunity
Molecular Family	CD Molecules
Antigen References	1. Colonna M. *et al*. 1995. *Science*. 268:405-8. 2. Lanier LL. 2005. *Annu Rev Immunol*. 23:225-74. 3. Hansasuta P, *et al*. 2004. *Eur J immunol*. 34:1673-9.
Gene ID	3812

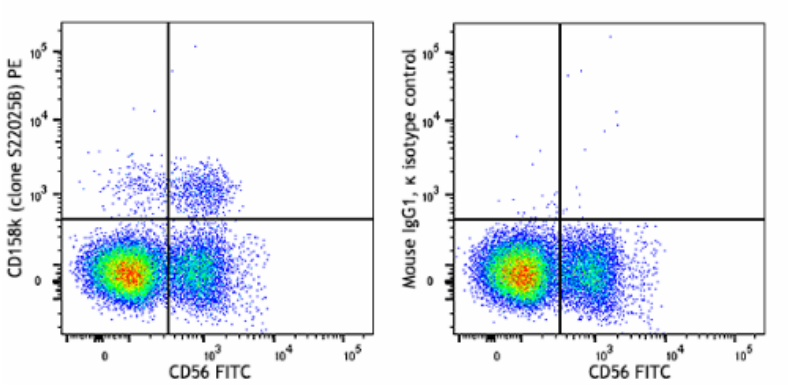
Related Protocols

- Cell Surface Flow Cytometry Staining Protocol

Other Formats

Purified anti-human CD158k (KIR3DL2), PE anti-human CD158k (KIR3DL2) Antibody, APC anti-human CD158k (KIR3DL2) Antibody

Product Data



Human peripheral blood lymphocytes were stained with anti-human CD56 (clone QA17A16) FITC and anti-human CD158k (KIR3DL2) (clone S22025B) PE (left) or mouse IgG1, κ PE isotype control (right).

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