PE anti-human CD158f (KIR2DL5) Antibody

Catalog# / Size	317711 / 25 tests 317712 / 100 tests
Clone	S22010E
Regulatory Status	RUO
Other Names	CD158f, Killer Cell Immunoglobulin-Like Receptor 2DL5, CD158F1, 2DL5.1, KIR2DL5A, KIR2DL5B, CD158F2, KIR2DLX
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. Fifteen polymorphic KIR genes have been reported in humans. CD158f, also known as KIR2DL5, is a 40 kD two extracellular Ig domain glycoprotein that displays a long cytoplasmic tail with an ITIM motif as well as an immunoreceptor tyrosine-based switch motif (ITSM). It is expressed primarily on a subset of NK cells and a subset of T cells. KIR2DL5 has been reported to bind to CD155 resulting in immune inhibitory suppression of NK cells.[4]

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Human KIR2DL5 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	Clone S22010E does not the block binding of clone UP-R1 on target cells and is not blocked by UP-R1. Clone S22010E can bind to multiple SNP variants of KIR2DL5. Based on in-house testing on different KIR-expressing transfectants, clone S22010E does not interact with other KIR protein family members.

Antigen Details

Structure	40 kD two Ig-like extracellular domain glycoprotein
Distribution	Subset of NK cells, subset of T cells
Function	NK Cell regulation
Ligand/Receptor	CD155
Cell Type	Lymphocytes, NK cells, T cells
Biology Area	Cell Biology, Immunology, Innate Immunity
Molecular Family	CD Molecules
Antigen References	1. Vilches, C. *et al.* 2002. *Annu. Rev. Immunol.* 2002:20:217-51 2. Middleton, D. *et al*. 2010. *Immunol.* 123:8 3. Ernesto, E. *et al.* 2007. *Journal of Immunol.* 178(7):4402-10 4. Ren, X. et al. 2022. *J. Clin Invest.* 132.22
Gene ID	57292

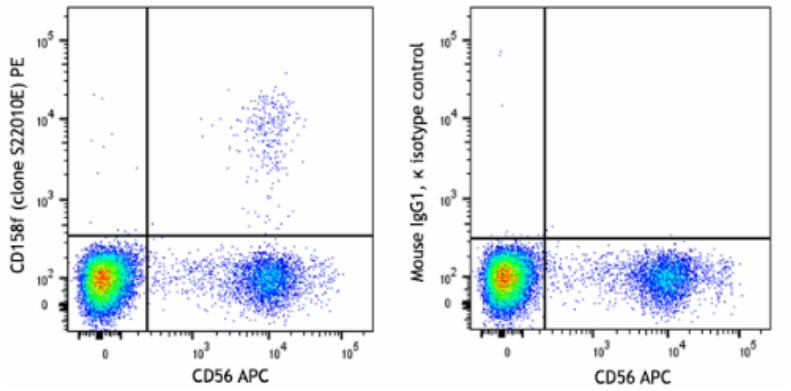
Related Protocols

- Cell Surface Flow Cytometry Staining Protocol

Other Formats

PE anti-human CD158f (KIR2DL5), Purified anti-human CD158f (KIR2DL5) Antibody

Product Data



Human peripheral blood lymphocytes were stained with anti-human CD56 (clone QA17A16) APC and anti-human CD158f (KIR2DL5) (clone S22010E) PE (left) or mouse IgG1, κ PE isotype control (right).

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