

PE/Cyanine7 anti-human CD158h (KIR2DS1) Antibody

Catalog# / Size	335009 / 25 tests 335010 / 100 tests
Clone	S22019F
Regulatory Status	RUO
Other Names	CD158H, Killer Cell Immunoglobulin-Like Receptor 2DS1, KIR2DS1
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 ITIMs and have activation functions. Fifteen polymorphic KIR genes have been reported in humans. CD158h is a 50 kD, single-pass glycoprotein with two extracellular Ig domains that contains a short cytoplasmic tail and does not contain an intracellular ITIM domain. It is expressed primarily on a subset of NK cells and a subset of T cells. KIR2DS1 is reported to bind certain HLA-C antigens on target cells (HLA-C*02, HLA-C*04, HLAC*06, for example).

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	KIR2DS1 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/Cyanine7 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 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L 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, clone S22019F does not react to other KIR protein family members.

Antigen Details

Structure	50 kD two Ig-like extracellular domain glycoprotein
Distribution	Subset of NK cells, small subset of T Cells
Function	NK cell regulation

Ligand/Receptor	Some HLA-C molecules
Cell Type	Lymphocytes, NK cells, T cells
Biology Area	Cell Biology, Immunology, Innate Immunity
Molecular Family	CD Molecules

Antigen References

1. Biassoni, R. *et al.* 1996. *J Exp Med.* 183:645-50.
2. Stewart CA, *et al.* 2005. *Proc Natl Acad Sci.* 102:13224-9.
3. Lanier, LL. 2005. *Annu Rev Immunol.* 23:225-74.

Gene ID [3806](#)

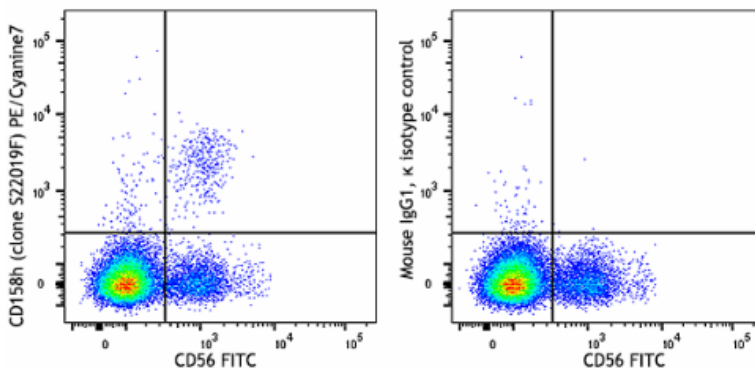
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human CD158h (KIR2DS1), APC anti-human CD158h (KIR2DS1) Antibody, PE anti-human CD158h (KIR2DS1) Antibody, PE/Cyanine7 anti-human CD158h (KIR2DS1) Antibody

Product Data



Human peripheral blood lymphocytes were stained with anti-human CD56 (clone QA17A16) FITC and anti-human CD158h (KIR2DS1) (clone S22019F) PE/Cyanine7 (left) or mouse IgG1, κ PE/Cyanine7 isotype control (right).

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