

PE anti-human CD158a (KIR2DL1) Antibody

Catalog# / Size	316415 / 25 tests 316416 / 100 tests
Clone	S22039A
Regulatory Status	RUO
Other Names	CD158a, Killer Cell Immunoglobulin-Like Receptor 2DL1, NKAT1, p58.1
Isotype	Mouse IgG1, κ
Description	<p>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.</p> <p>CD158a, also known as KIR2DL1, is a 38 kD, two extracellular Ig domain glycoprotein that displays a long cytoplasmic tail with ITIM motifs. It is expressed primarily on a subset of NK cells and a subset of T cells. KIR2DL1 has been reported to bind certain HLA-C antigens on target cells (HLA-C*02, HLA-C*04, HLAC*06, for example).</p>

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Recombinant human KIR2DL1 protein
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 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	<p>Clone S22039A does not block binding of clones HP-DM1 and HP-MA4 on target cells.</p> <p>Based on in-house testing on different KIR-expressing transfectants, clone S22039A does not interact with other KIR protein family members.</p>
RRID	AB_3698972 (BioLegend Cat. No. 316415) AB_3698972 (BioLegend Cat. No. 316416)

Antigen Details

Structure	38 kD two Ig-like extracellular domain glycoprotein
Distribution	Subset of NK cells, 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	<ol style="list-style-type: none"> 1. Vilches C, <i>et al.</i> 2002. <i>Annu Rev Immunol.</i> 92.107361. 2. Middleton, D. <i>et al.</i> 2010. <i>Immunol.</i> 123:8. 3. Fan QR. <i>et al.</i> 2004. <i>Blood.</i> 103:5.
Gene ID	3802

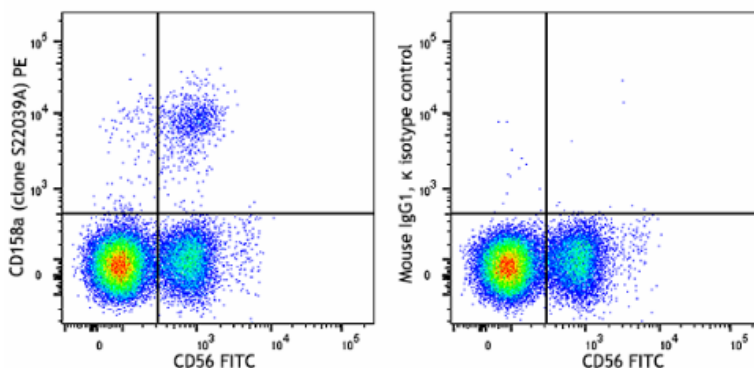
Related Protocols

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

Other Formats

Purified anti-human CD158a (KIR2DL1), PE anti-human CD158a (KIR2DL1) Antibody

Product Data



Human peripheral blood lymphocytes were stained with anti-human CD56 (clone QA17A16) FITC and anti-human CD158a (KIR2DL1) (clone S22039A) PE (left) or mouse IgG1, κ PE isotype control (right).

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