

Brilliant Violet 421™ anti-human CD158b1/j (KIR2DL2/KIR2DS2) Antibody

Catalog# / Size	317619 / 25 tests 317620 / 100 tests
Clone	S22032A
Regulatory Status	RUO
Other Names	CD158b1 (KIR2DL2, p58.2), CD158j (KIR2DS2, p50.2), KIR-NKAT2
Isotype	Mouse IgG2b, 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.

CD158b1 and CD158j, also known as KIR2DL2 and KIR2DS2, respectively, are glycoproteins with two extracellular Ig domains. KIR2DL2 displays a long cytoplasmic tail with ITIM motifs and is 38 kD. KIR2DS2, with a short cytoplasmic tail containing an ITAM motif, is 33 kD in size. Both KIR2DL2 and KIR2DS2 are expressed primarily on a subset of NK cells and a subset of T cells. KIR2DL2 and KIR2DS2 have been reported to bind to certain HLA-C antigens on a target cell (HLA-C*01, HLA-C*03, HLA-C*07, for example).

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Recombinant human KIR2DL2 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 Brilliant Violet 421™ 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. Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd. Learn more about Brilliant Violet™.

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prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.

Excitation Laser	Violet Laser (405 nm)
Application Notes	Clone S22032A does not block the binding of clone DX27 on target cells and is not blocked by DX27. Based on in-house testing on different KIR-expressing transfectants, clone S22032A does not interact with other KIR protein family members.
RRID	AB_3720616 (BioLegend Cat. No. 317619) AB_3720616 (BioLegend Cat. No. 317620)

Antigen Details

Structure	KIR2DL2 is 38 kD and has two extracellular Ig-like domains. KIR2DS2 is 33 kD and has two extracellular Ig-like domains.
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	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. Wisniewski A, <i>et al.</i> 2012. <i>Human Immu.</i> 73.9. 4. Lin Z, <i>et al.</i> 2016. <i>Cell Reports.</i> 17.9.
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Gene ID	3803 100132285
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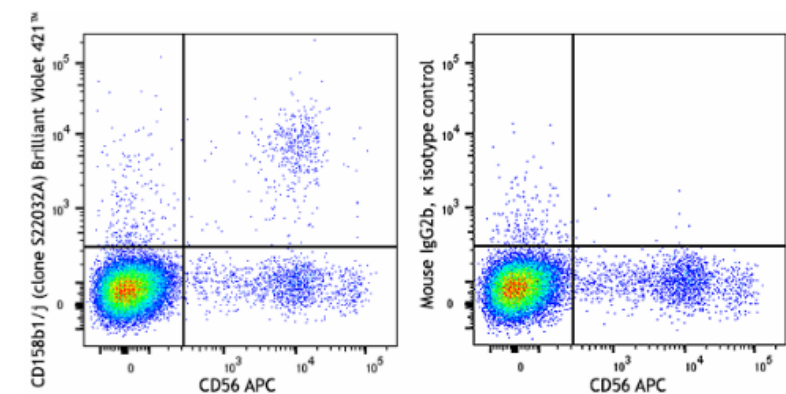
Related Protocols

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

Other Formats

Purified anti-human CD158b1/j (KIR2DL2/KIR2DS2), PE anti-human CD158b1/j (KIR2DL2/KIR2DS2) Antibody, Brilliant Violet 421™ anti-human CD158b1/j (KIR2DL2/KIR2DS2) Antibody

Product Data



Human peripheral blood lymphocytes were stained with anti-human CD56 (clone QA17A16) APC and anti-human CD158b1/j (KIR2DL2/KIR2DS2) (clone S22032A) Brilliant Violet 421™ (left) or mouse IgG2b, κ Brilliant Violet 421™ isotype control (right).

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