

Brilliant Violet 421™ anti-human CD158z (KIR3DL3) Antibody

Catalog# / Size	334909 / 25 tests 334910 / 100 tests
Clone	S23011E
Regulatory Status	RUO
Other Names	CD158z, Killer Cell Immunoglobulin-Like Receptor 3DL3, KIR44, KIRC1
Isotype	Mouse IgG2a, 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. CD158z is a glycoprotein with three extracellular Ig domains and a long cytoplasmic tail containing an ITIM motif. It is reportedly expressed on intraepithelial γδ and CD8+ T cells. KIR3DL3 has been reported to bind to HHLA2 (B7H7) to cause downstream functional inhibition.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	KIR3DL3-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 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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Excitation Laser	Violet Laser (405 nm)
Application Notes	Based on in-house testing on different KIR-expressing transfectants, clone S23011E does not interact with other KIR protein family members.

Antigen Details

Structure	Three Ig-like extracellular domain glycoprotein
Distribution	Intraepithelial $\gamma\delta$ and CD8+ T cells
Function	T Cell subset regulation
Ligand/Receptor	HLA2
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. Bhatt RS, <i>et al.</i> 2021. <i>Cancer Immunol.</i> 2:156-169.
Gene ID	115653

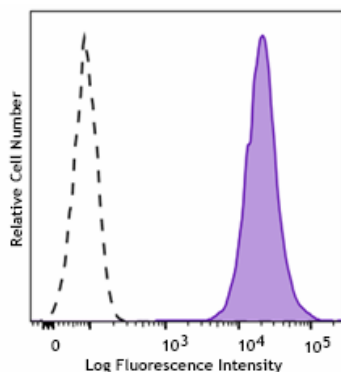
Related Protocols

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

Other Formats

Purified anti-human CD158z (KIR3DL3), Brilliant Violet 421™ anti-human CD158z (KIR3DL3), PE anti-human CD158z (KIR3DL3)

Product Data



Human KIR3DL3 transfected Ba/F3 cells were stained with anti-human CD158z (KIR3DL3) (clone S23011E) Brilliant Violet 421™ (filled histogram) or mouse IgG2a, κ Brilliant Violet 421™ isotype control (open histogram).

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