

Brilliant Violet 421™ anti-human CD159c (NKG2C) Antibody

Catalog# / Size	375013 / 25 tests 375014 / 100 tests
Clone	S19005E
Regulatory Status	RUO
Other Names	Killer Cell Lectin Like Receptor C2, KLRC2, NK Cell Receptor C
Isotype	Mouse IgG1, κ
Description	CD159c, also known as NKG2C or KLRC2, is a type II transmembrane protein. It belongs to the killer cell lectin-like receptor family also known as the NKG2 family. It is expressed on NK and NKT cells and T cell subsets. NKG2C is an activating NK cell receptor and it is expressed as a heterodimer with CD94. In humans, the NKG2C/CD94 complex interacts with HLA-E on target cells and delivers activating signals through immunoreceptor tyrosine-based activation motifs.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Human NKG2C/CD94-transfectants
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	<p>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.</p> <p>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.</p> <p>Learn more about Brilliant Violet™.</p> <p>This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.</p>
Excitation Laser	Violet Laser (405 nm)
Application Notes	S19005E does not crossreact with mouse CD159c.
RRID	AB_3675090 (BioLegend Cat. No. 375013)

Antigen Details

Structure	Type II transmembrane proteins of the C-type lectin superfamily
Distribution	NK cells, NKT cells, T cell subsets
Function	Activating NK cell receptor
Ligand/Receptor	HLA-E
Cell Type	Lymphocytes, NK cells, NKT cells, T cells
Biology Area	Immuno-Oncology, Immunology
Molecular Family	Immune Checkpoint Receptors

Antigen References

1. Malisheni M, et al. 2017. Front Immunol. 8:863.
2. Sáez-Borderías A, et al. 2009. J Immunol, 182:829.
3. Kamiya T, et al. 2019. J. Clin. Invest. 129:2094.

Gene ID [3822](#)

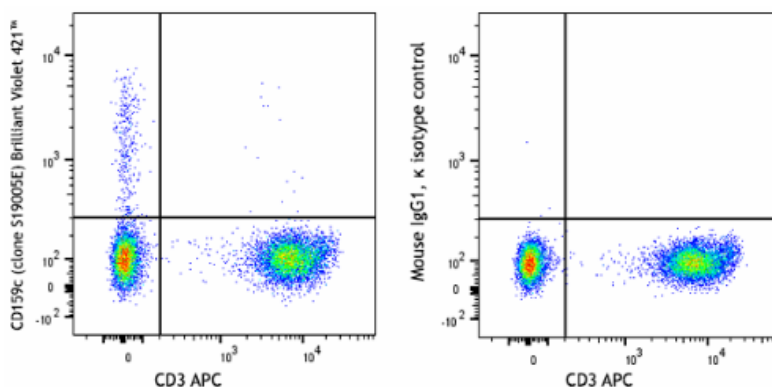
Related Protocols

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

Other Formats

Purified anti-human CD159c (NKG2C), PE anti-human CD159c (NKG2C), TotalSeq™-C1375 anti-human CD159c (NKG2C), TotalSeq™-D1375 anti-human CD159c (NKG2C), TotalSeq™-B1375 anti-human CD159c (NKG2C), TotalSeq™-A1375 anti-human CD159c (NKG2C), Brilliant Violet 421™ anti-human CD159c (NKG2C), Brilliant Violet 785™ anti-human CD159c (NKG2C), PE anti-human CD159c, APC anti-human CD159c (NKG2C), APC/Cyanine7 anti-human CD159c (NKG2C), FITC anti-human CD159c (NKG2C), Brilliant Violet 605™ anti-human CD159c (NKG2C)

Product Data



Human peripheral blood lymphocytes were stained with anti-human CD3 (clone UCHT1) APC and anti-human CD159c (NKG2C) (clone S19005E) Brilliant Violet 421™ (left) or mouse IgG1, κ Brilliant Violet 421™ isotype control (right).

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