

## Brilliant Violet 785™ anti-human CD159c (NKG2C) Antibody

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|--------------------------|--|
| <b>Catalog# / Size</b>   | 375015 / 25 tests<br>375016 / 100 tests  |
| <b>Clone</b>             | S19005E  |
| <b>Regulatory Status</b> | RUO  |
| <b>Other Names</b>       | Killer Cell Lectin Like Receptor C2, KLRC2, NK Cell Receptor C   |
| <b>Isotype</b>           | Mouse IgG1, κ  |
| <b>Description</b>       | 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

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| <b>Verified Reactivity</b>    | Human  |
| <b>Antibody Type</b>          | Monoclonal   |
| <b>Host Species</b>           | Mouse  |
| <b>Immunogen</b>              | Human NKG2C/CD94-transfectants   |
| <b>Formulation</b>            | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)  |
| <b>Preparation</b>            | The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 785™ under optimal conditions.   |
| <b>Concentration</b>          | Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our <a href="#">Certificate of Analysis</a> online tool.)  |
| <b>Storage &amp; Handling</b> | The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>  |
| <b>Application</b>            | <a href="#">FC - Quality tested</a>  |
| <b>Recommended Usage</b>      | <p>Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a>. 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 785™ excites at 405 nm and emits at 785 nm. The bandpass filter 780/60 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 785™ is a trademark of Sirigen Group Ltd.</p> <p><a href="#">Learn more about Brilliant Violet™.</a></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> |
| <b>Excitation Laser</b>       | Violet Laser (405 nm)  |

**Application Notes** S19005E does not crossreact with mouse CD159c.

**RRID** AB\_3675091 (BioLegend Cat. No. 375015)  
AB\_3675091 (BioLegend Cat. No. 375016)

## 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](#)

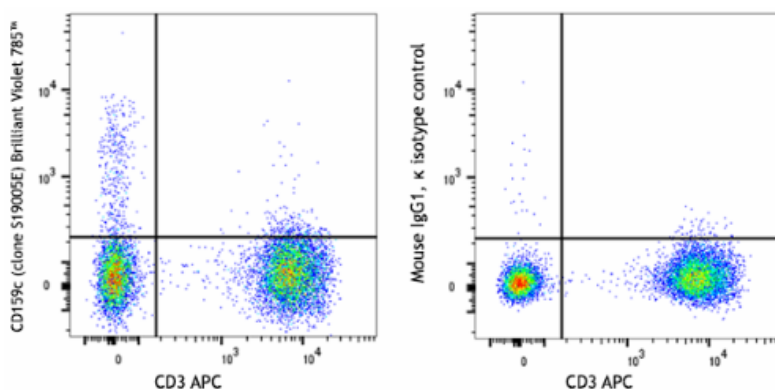
## Related Protocols

- [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 785™ (left) or mouse IgG1, κ Brilliant Violet 785™ isotype control (right).

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