# Brilliant Violet 605™ anti-mouse CD73 Antibody

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| **Catalog# / Size** | 127215 / 125 µL<br>127216 / 50 µg |
| **Clone** | TY/11.8 |
| **Regulatory Status** | RUO |
| **Other Names** | Ecto-5'-nucleotidase |
| **Isotype** | Rat IgG1, κ |
| **Description** | In mice, CD73 expression in the bone marrow is restricted to CD11b$^+$ myeloid cells. In the spleen, it is largely expressed on T cells. |

## Product Details

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| **Verified Reactivity** | Mouse |
| **Antibody Type** | Monoclonal |
| **Host Species** | Rat |
| **Immunogen** | CHO cells transfected with mouse CD73 |
| **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 605™ under optimal conditions. |
| **Concentration** | For µL size: Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)<br><br>For µg size: 0.2 mg/mL |
| **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.<br><br>For µL 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.<br><br>For µg flow cytometric staining, the suggested use of this reagent is ≤ 0.5 µg per million cells in 100 µL volume.<br><br>It is recommended that the reagent be titrated for optimal performance for each application.<br><br>Brilliant Violet 605™ excites at 405 nm and emits at 603 nm. The bandpass filter 610/20 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 605™ is a trademark of Sirigen Group Ltd.<br><br>Learn more about Brilliant Violet™.<br><br>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. |

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| **Excitation Laser** | Violet Laser (405 nm) |
| **Application References**<br><br>**(PubMed link indicates BioLegend citation)** | 1. Yamshita Y, *et al* 1998. *Eur. J. Immunol.* 28:2981.<br>2. Bentley JK, *et al.* 2010. *Respir. Res.* 11:127. (IHC-P) |
| **Product Citations** | 1. Hirata Y *et al.* 2018. Cell stem cell. 22(3):445-453 . PubMed<br>2. Andrade MS, *et al.* 2022. JCI Insight. 7:. PubMed<br>3. Hu W, *et al.* 2021. Nat Immunol. 22:1163. PubMed<br>4. Waide ML, *et al.* 2020. Cell Rep. 33:108503. PubMed<br>5. Suah AN, *et al.* 2021. J Clin Invest. 131:. PubMed<br>6. Perrot I *et al.* 2019. Cell Rep. 27(8):2411-2425 . PubMed<br>7. Dikiy S, *et al.* 2021. Immunity. 54(5):931-946.e11. PubMed<br>8. Campbell C *et al.* 2018. Immunity. 48(6):1245-1257 . PubMed<br>9. Abbott RK, *et al.* 2018. Immunity. 48:133. PubMed<br>10. Quiroz HJ, *et al.* 2022. Front Cardiovasc Med. 8:826687. PubMed<br>11. Watson MJ, *et al.* 2021. Nature. 591:645. PubMed<br>12. Singhal P, *et al.* 2016. Proc Natl Acad Sci U S A. 113: 122 - 127. PubMed |
| **RRID** | AB_2561528 (BioLegend Cat. No. 127215) |

## Antigen Details

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| **Structure** | 69 kD GPI-anchored surface protein |
| **Distribution** | Positive on most CD11b+ myeloid cells in bone marrow, but not on CD11b+ peripheral cells; a large proportion of CD4+ and CD8+ splenic T cells express CD73 |
| **Function** | A nucleotidase catalyzing the dephosphorylation of extracellular nucleoside 5' monophosphates |
| **Ligand/Receptor** | Nucleoside 5' monophosphate |
| **Cell Type** | B cells, Mesenchymal Stem Cells, Tregs |
| **Biology Area** | Costimulatory Molecules, Immunology, Stem Cells |
| **Molecular Family** | CD Molecules |
| **Antigen References** | 1. Yamashita Y, *et al* 1998. *Eur. J. Immunol.* 28:2981.<br>2. Resta R, *et al.* 1998. *Immunol. Rev.* 161:95. |
| **Regulation** | Expression is regulated by the development and maturation of leukocytes |
| **Gene ID** | 23959 |

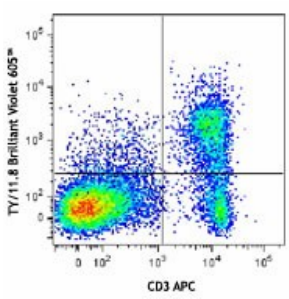
## Related Protocols

- Cell Surface Flow Cytometry Staining Protocol

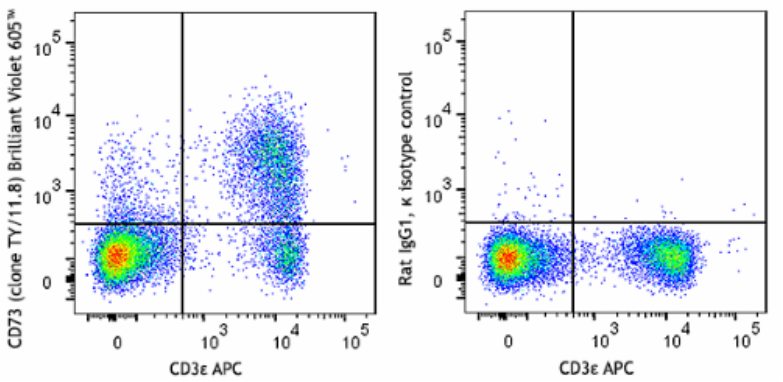
## Other Formats

PE/Cyanine7 anti-mouse CD73, PE anti-mouse CD73, Brilliant Violet 421™ anti-mouse CD73, FITC anti-mouse CD73, APC/Fire™ 750 anti-mouse CD73, Biotin anti-mouse CD73, Alexa Fluor® 647 anti-mouse CD73, APC anti-mouse CD73, Pacific Blue™ anti-mouse CD73, PerCP/Cyanine5.5 anti-mouse CD73, Alexa Fluor® 594 anti-mouse CD73, TotalSeq™-A0077 anti-mouse CD73, PE/Dazzle™ 594 anti-mouse CD73, TotalSeq™-C0077 anti-mouse CD73, Brilliant Violet 605™ anti-mouse CD73, Spark PLUS B550™ anti-mouse CD73 (Flexi-Fluor™), Spark PLUS UV395™ anti-mouse CD73 (Flexi-Fluor™), Alexa Fluor® 700 anti-mouse CD73, APC/Cyanine7 anti-mouse CD73, Purified anti-mouse CD73, TotalSeq™-B0077 anti-mouse CD73

## Product Data




C57BL/6 mouse splenocytes were stained with CD3 APC and CD73 (clone TY/11.8) Brilliant Violet 605™.




C57BL/6 mouse splenocytes were stained with anti-mouse CD3ε (clone 145-2C11) APC and anti-mouse CD73 (clone TY/11.8) Brilliant Violet 605™ (left) or rat IgG1, κ Brilliant Violet 605™ isotype control (right).



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