SONY

Product Data Sheet

Brilliant Violet 605™ anti-human HLA-A,B,C

Catalog # / Size: 2157160 / 100 tests
2157155 / 25 tests

Clone: W6/32

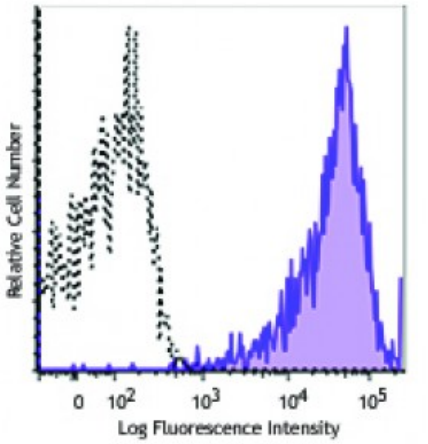
Isotype: Mouse IgG2a, κ

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 605™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 605™ and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with HLA-A,B,C (clone W6/32) Brilliant Violet 605™ (filled histogram) or mouse IgG2a, κ Brilliant Violet 605™ isotype control (open histogram).

Applications:

Applications: Flow Cytometry

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 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

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.

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Application Notes: Clone W6/32 recognizes a monomorphic epitope on the 45 kD polypeptide products of HLA-A, B, C[18].

Additional reported applications (for the relevant formats) include: immunoprecipitaton2, Western blotting (non-reducing)3, immunohistochemical staining of acetone-fixed frozen tissue sections[4,5], blocking[6,7], inhibition of NK cell-mediated lysis[10], and activation[8,9]. Clone W6/32 has been reported not to be suitable for immunohistochemistry on paraffin sections[17]. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 311412). For highly sensitive assays, we recommend

Ultra-LEAF™ purified antibody (Cat. No. 311428) with a lower endotoxin limit than standard LEAF™ purified antibodies (Endotoxin <0.01 EU/microg).

Application References:

1. Darrow TL, *et al.* 1989. *J. Immunol.* 142:3329.
2. Stern P, *et al.* 1987. *J. Immunol.* 138:1088.
3. Tran TM, *et al.* 2001. *Immunogenetics* 53:440.
4. Barbatis C, *et al.* 1981. *Gut* 22:985.
5. Ayyoub M, *et al.* 2004. *Cancer Immunity* 4:7.
6. DeFelice M, *et al.* 1990. *Cell. Immunol.* 126:420.
7. Fayen J, *et al.* 1998. *Int. Immunol.* 10:1347.
8. Turco MC, *et al.* 1988. *J. Immunol.* 141:2275.
9. Geppert TD, *et al.* 1989. *J. Immunol.* 142:3763.
10. Wooden SL, *et al.* 2005. *J. Immunol.* 175:1383.
11. Nagano M, *et al.* 2007. *Blood* 110:151.
12. McLoughlin RM,*et al.*2008. *J. Immunol.* 181:1323. PubMed
13. Takahara M, *et al.*2008. *J. Leukoc. Biol.* 83:742. PubMed
14. Lunemann A, *et al.*2008. *J. Immunol.* 181:6170. PubMed
15. Laing BJ, *et al.* 2010. *J. Thorac Cardiovasc Surg.* 139:1402. PubMed
16. Yoshino N, *et al.* 2000. *Exp. Anim. (Tokyo)* 49:97. (FC)
17. Vambutas A, *et al.* 2000. *Clin. Diagn. Lab. Immun.* 7:79.
18. Coppieters KT, *et al.* 2012. *J. Exp. Med.* 209:51. (epitope)
19. Crivello P, *et al.* 2013. *Hum Immunol.* 22:100. PubMed
20. Jung Y, *et al.* 2015. *Mol Cancer Res.* 13:197. PubMed

Description: MHC class I antigens associated with β2-microglobulin are expressed by all human nucleated cells. MHC class I molecules are involved in presentation of antigens to $CD8^+$ T cells. They play an important role in cell-mediated immune responses and tumor surveillance.

Antigen References:

1. Barclay AN, *et al.* Eds. 1993. The Leukocyte Antigen FactsBook. Academic Press Inc. San Diego.