

**PE/Dazzle™ 594 anti-human HLA-A,B,C**

**Catalog # / Size:** 2157200 / 100 tests  
2157195 / 25 tests

**Clone:** W6/32

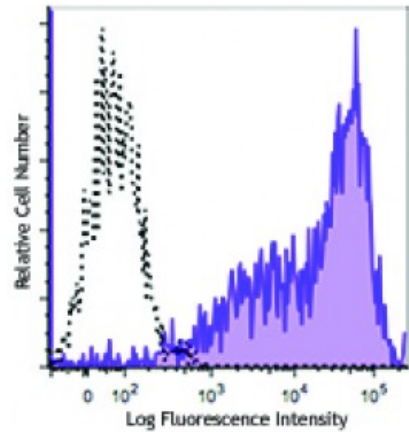
**Isotype:** Mouse IgG2a, κ

**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography and conjugated with PE/Dazzle™ 594 under optimal conditions. The solution is free of unconjugated PE/Dazzle™ 594 and unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

**Concentration:** Lot-specific



Human peripheral blood lymphocytes were stained with HLA-A,B,C (clone W6/32) PE/Dazzle™ 594 (filled histogram) or mouse IgG2a, κ PE/Dazzle™ 594 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.

\* PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.

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

Additional reported applications (for the relevant formats) include: immunoprecipitation<sup>2</sup>, Western blotting (non-reducing)<sup>3</sup>, immunohistochemical staining of acetone-fixed frozen tissue sections<sup>4,5</sup>, blocking<sup>6,7</sup>, inhibition of NK cell-mediated lysis<sup>10</sup>, and activation<sup>8,9</sup>. Clone W6/32 has been reported not to be suitable for immunohistochemistry on paraffin sections<sup>17</sup>. 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.
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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](#)
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**Description:** MHC class I antigens associated with  $\beta$ 2-microglobulin are expressed by all human nucleated cells. MHC class I molecules are involved in presentation of antigens to CD8<sup>+</sup> 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.