SONY

Product Data Sheet

APC anti-human HLA-A,B,C

Catalog # / Size: 2157050 / 100 tests
2157045 / 25 tests

Clone: W6/32

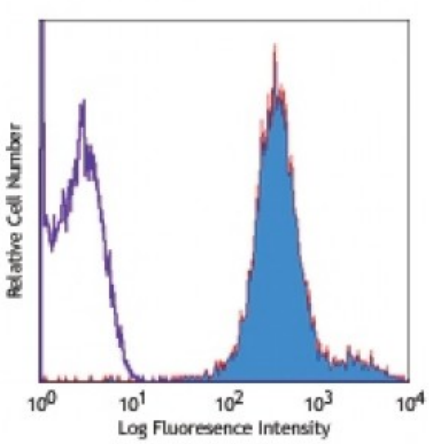
Isotype: Mouse IgG2a, κ

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with APC under optimal conditions. The solution is free of unconjugated APC 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 stained with W6/32 APC

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 microL to 5 microL per test**. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

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. Kimmel EM, *et al.* 2011. *Antiviral Res.* 90:80. PubMed
19. Coppieters KT, *et al.* 2012. *J. Exp. Med.* 209:51. (epitope)
20. Bradley SD, *et al.* 2015. *Cancer Immunol Res.* 3:602. 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.