

Product Data Sheet

FITC anti-human HLA-A,B,C

Catalog # / Size: 311403 / 25 tests
311404 / 100 tests

Clone: W6/32

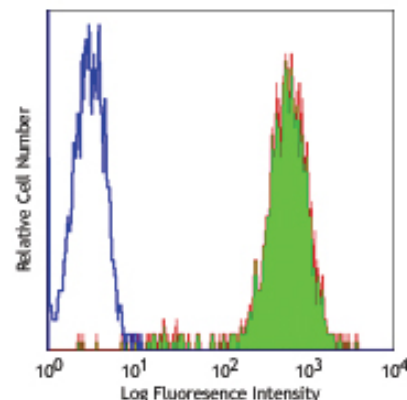
Isotype: Mouse IgG2a, κ

Reactivity: Human, **Cross-Reactivity:** Chimpanzee, Baboon, Cynomolgus, Rhesus, Cattle (Bovine, Cow), Cat (Feline)

Preparation: The antibody was purified by affinity chromatography, and conjugated with FITC under optimal conditions. The solution is free of unconjugated FITC.

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

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human peripheral blood lymphocytes stained with W6/32 FITC

Applications:

Applications: FC - Quality tested

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 μ l to 5 μ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 μ l staining volume or per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at www.biolegend.com/testsize regarding the test size change.

Application Notes: Clone W6/32 recognizes a monomorphic epitope on the 45 kD polypeptide products of HLA-A, B, C¹⁸.

Additional reported applications (for the relevant formats) include: immunoprecipitation², Western blotting (non-reducing)³, immunohistochemical staining of acetone-fixed frozen tissue sections^{4,5}, blocking^{6,7}, inhibition of NK cell-mediated lysis¹⁰ and activation^{8,9}. Clone W6/32 has been reported not to be suitable for immunohistochemistry on paraffin sections¹⁷. The LEAF™ purified antibody (Endotoxin <0.1 EU/ μ g, Azide-Free, 0.2 μ m 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/ μ g).

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. Tallerico R, et al. 2013. *J. Immunol.* 190:2381. PubMed.

Description: MHC class I antigens associated with β 2-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.

Related Products:

Product	Clone	Application
FITC anti-human HLA-DR	L243	FC
FITC Mouse IgG2a, κ Isotype Ctrl	MOPC-173	FC, ICFC



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Cell Staining Buffer
RBC Lysis Buffer (10X)
Human TruStain FcX™ (Fc Receptor Blocking Solution)

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FC, ICFC
FC, ICC, ICFC



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