

Product Data Sheet

Alexa Fluor® 647 anti-human HLA-A,B,C

Catalog # / Size: 311416 / 25 tests
311414 / 100 tests

Clone: W6/32

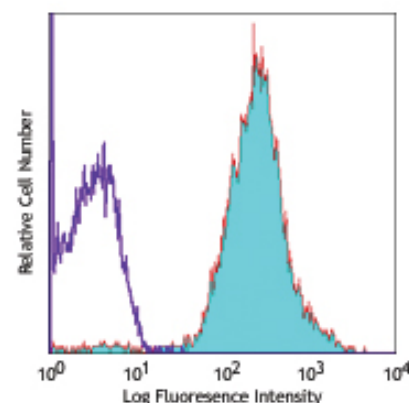
Isotype: Mouse IgG2a, κ

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

Preparation: The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 647 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 647.

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 Alexa Fluor® 647

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is 5 μ l per million cells or 5 μ l per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633nm / 635nm.

** Alexa Fluor® is a registered trademark of Molecular Probes, Inc. Alexa Fluor® dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and high content screening, and are covered by pending and issued patents.

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)

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
Cell Staining Buffer

Clone

Application
FC, ICC, ICFC



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RBC Lysis Buffer (10X)
Alexa Fluor® 647 Mouse IgG2a, κ Isotype Ctrl
Human TruStain FcX™ (Fc Receptor Blocking Solution)

MOPC-173

FC, ICFC
FC, ICFC
FC, ICC, ICFC



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BioLegend Inc., 9727 Pacific Heights Blvd, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587