

Product Data Sheet

APC anti-human HLA-DR

Catalog # / Size: 307609 / 25 tests

307610 / 100 tests

Clone: L243

Isotype: Mouse IgG2a, κ

Reactivity: Human, **Cross-Reactivity:** African Green, Baboon, Chimpanzee, Common Marmoset, Cotton-topped Tamarin, Cynomolgus, Pigtailed Macaque,

Rhesus, Squirrel Monkey, Dog (Canine) 17, 18

Preparation: The antibody was purified by affinity chromatography, and conjugated with

APC under optimal conditions. The solution is free of unconjugated APC and

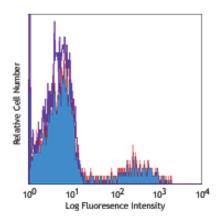
unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and

0.2% (w/v) BSA (origin USA)

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 L243 APC

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 µl to 5 µl per test. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 µl staining volume or per 100 µl 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: The L243 monoclonal antibody reacts with the HLA-DR antigen, a member of MHC class II molecules. It does not cross react with HLA-DP and HLA-DQ. Additional reported applications (for the relevant formats) include: immunoprecipitation⁸, Western blotting⁸, *in vitro* blocking of mixed lymphocyte reactions^{7,9,10}, and immunohistochemical staining of acetone-fixed frozen sections^{4,5}. The LEAF™ purified antibody (Endotoxin <0.1 EU/µ g, Azide-Free, 0.2 μm filtered) is recommended for functional assays (Cat. No. 307612). For highly sensitive assays, we recommend Ultra-LEAF™ purified antibody (Cat. No. 307648) with a lower endotoxin limit than standard LEAF™ purified antibodies (Endotoxin < 0.01 EU/µg)

- Application References: 1. Brodsky F. 1984. Immunogenetics 19:179.
 2. Robbins P, et al. 1987. Human Immunol. 18:301.
 3. Stites D, et al. 1986. Clin. Immunol. Immunopathol. 38:161. Warnke R, et al. 1980. J. Histochem. Cytochem. 28:771. (IHC)
 Engleman E, et al. 1981. P. Natl. Acad. Sci. USA 78:1791. (IHC)
 Zipf T, et al. 1981. Cancer Res. 41:4786.

 - 7. Goodier M, et al. 2000. J. Immunol. 165:139. (Block) 8. Esser M, et al. 2001. J. Virol. 75:6173. (IP, WB)

 - 9. Kalka-Moll WM, et al. 2002. J. Immunol. 169:6149. (Block)

 - 10. Wang RF, et al. 1999. Science 284:1351. (Block)
 11. Zaba LC, et al. 2007. J. Exp. Med. 204:3183. PubMed
 12. Fujita H, et al. 2009. P. Natl. Acad. Sci. USA 106:21795. PubMed
 13. Charles N, et al. 2010. Natl. Med. 16:701. (FC) PubMed

 - 14. Goncalves RM, et al. 2010. Infect. Immun. 78:4763. PubMed
 - 15. Yoshino N, *et al.* 2000. *Exp. Anim. (Tokyo)* 49:97. (FC) 16. Kim WK, *et al.* 2006. *Am. J. Pathol.* 168:822. (FC)

 - 17. Stein R, et al. 2011. Leuk. Lymphoma 52:273. 18. Galkowska H, et al. 1996. Vet. Immunol. Immunopathol. 53:329.

Description: HLA-DR is a heterodimeric cell surface glycoprotein comprised of a 36 kD α (heavy) chain and a 27 kD β (light) chain. It is expressed on B cells, activated T cells, monocytes/macrophages, dendritic cells, and other non-professional APCs. In conjunction with the CD3/TCR complex and CD4 molecules, HLA-DR is critical for efficient peptide presentation to CD4+ T cells.

- Antigen References: 1. Levacher M, et al. 1990. Clin. Exp. Immunol. 81:177.
 - 2. Terstappen L, et al. 1990. J. Leukocyte Biol. 48:138.
 - 3. Edwards JA, et al. 1986. J. Immunol. 137:490. 4. van Es A, et al. 1984. Transplantation 37:65.

 - 5. O'Doherty U, et al. 1994. Immunology 82:487.
 - 6. Thomas R, et al. 1994. J. Immunol. 153:4016.



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7. Grouard G, et al. 1996. Nature 384:364.

Related Products: Product

APC Mouse IgG2a, κ Isotype Ctrl
Cell Staining Buffer
RBC Lysis Buffer (10X)
APC anti-human HLA-A,B,C
Human TruStain FcXTM (Fc Receptor

Blocking Solution)

Clone MOPC-173 Application FC, ICFC FC, ICC, ICFC FC, ICFC FC

W6/32 FC, ICC, ICFC



