

Product Data Sheet

PerCP/Cy5.5 anti-human HLA-DR

Catalog # / Size: 307629 / 25 tests

307630 / 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 PerCP/Cy5.5 under optimal conditions. The solution is free of unconjugated

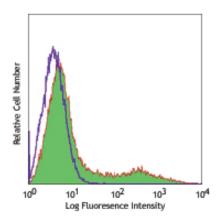
PerCP/Cy5.5 and unconjugated antibody.

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 with L243 PerCP/Cy5.5

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 µl per million cells or 5 µl per 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* PerCP/Cy5.5 has a maximum absorption of 482 nm and 564 nm and a maximum emission of 690 nm.

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).

> Cy3, Cy5, Cy5.5 and Cy7 are subject to proprietary rights of GE Healthcare Bio-Sciences Corp. and Carnegie Mellon University and made and sold under license from GE Healthcare Bio-Sciences Corp. Sale of this product is licensed for research use only.

- Application References: 1. Brodsky F. 1984. Immunogenetics 19:179.

 - Robbins P, et al. 1987. Human Immunol. 18:301.
 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. Nat. 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.



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van Es A, et al. 1984. Transplantation 37:65.
 O'Doherty U, et al. 1994. Immunology 82:487.
 Thomas R, et al. 1994. J. Immunol. 153:4016.

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

Related Products: Product

Cell Staining Buffer RBC Lysis Buffer (10X) PerCP/Cy5.5 Mouse IgG2a, κ Isotype

Human TruStain FcX™ (Fc Receptor **Blocking Solution)**

Clone **Application**

MOPC-173

FC, ICC, ICFC FC, ICFC FC, ICFC

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