

## **Product Data Sheet**

## PerCP anti-human HLA-DR

Catalog # / Size: 307627 / 25 tests

307628 / 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 under optimal conditions. The solution is free of unconjugated PerCP

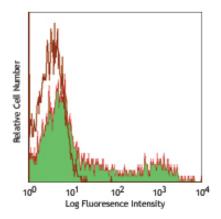
and unconjugated antibody.

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 PerCP

## **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 has a maximum absorption of 482 nm and 564 nm and a maximum emission of 675 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: immunoprecipitation<sup>8</sup>, Western blotting<sup>8</sup>, *in vitro* blocking of mixed lymphocyte reactions<sup>7,9,10</sup>, and immunohistochemical staining of acetone-fixed frozen sections<sup>4,5</sup>. 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.



For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.



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

**Related Products: Product** 

Cell Staining Buffer
RBC Lysis Buffer (10X)
PerCP Mouse IgG2a, κ Isotype Ctrl
Human TruStain FCX™ (Fc Receptor

Blocking Solution)

Clone

**MOPC-173** 

Application FC, ICC, ICFC FC, ICFC FC, ICFC FC, ICC, ICFC



