

## cFluor<sup>®</sup> B515 Anti-Human HLA-DR (L243)

PRODUCT DETAILS	
<b>Catalog Number:</b>	R7-20101 (100 tests) R7-20102 (25 tests)
<b>Reactivity:</b>	Human, African Green, Baboon, Chimpanzee, Cynomolgus, Dog (Canine), Marmoset, Rhesus, Squirrel Monkey, Tamarin
<b>Clone:</b>	L243
<b>Format:</b>	cFluor <sup>®</sup> B515*
<b>Isotype:</b>	Mouse IgG2a, κ
<b>Volume Per Test:</b>	5 µL / test
<b>Application:</b>	Flow cytometry
<b>Formulation:</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% BSA (Origin USA)
<b>Storage:</b>	2-8°C and protected from light. <b>Do not freeze</b>

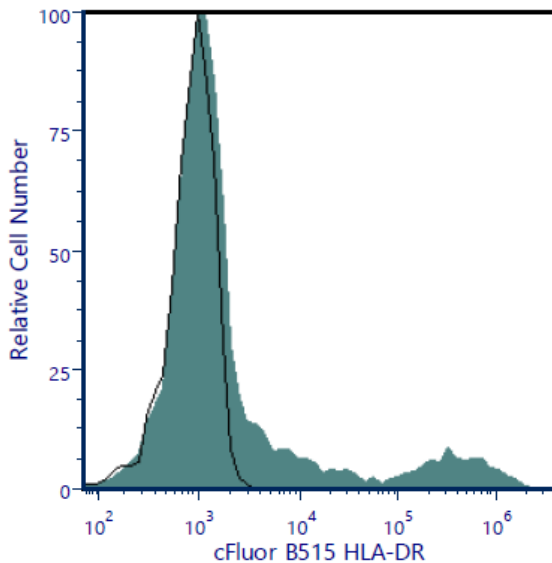
### PRODUCT DESCRIPTION

The L243 monoclonal antibody binds to the human HLA-DR antigen, a 36-kDa alpha heavy chain and a 27-kDa beta light chain heterodimeric cell surface glycoprotein in transmembrane major histocompatibility complex 2 (MHC II) family <sup>(1)(2)</sup>. HLA-DR, also known as human leukocyte antigen DR isotype, is present on the surface of antigen-presenting cells, including B cells, dendritic cells, macrophages, monocytes and activate T cells. MHC class II regulates the immune system by playing a critical role in binding and presenting antigen-derived peptides to peptide-MHC II-specific CD4 T cells <sup>(3)</sup>. The antibody was conjugated to a fluorophore and purified by affinity chromatography.

### RECOMMENDED USAGE

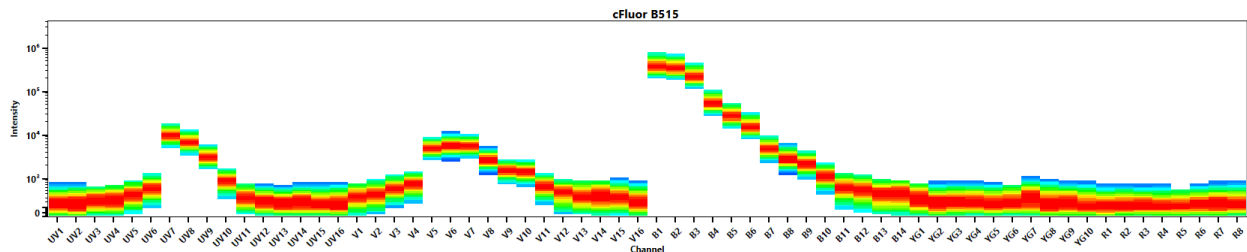
Each lot of this antibody is quality control tested using flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 µL per 1 million cells in a staining volume of 100 µL. If whole blood is analyzed, then use 5 µL per 100 µL. It is recommended that users titrate the antibody to obtain the optimal result for their specific application.

PRODUCT DATA



Human peripheral blood was stained with cFluor® B515 Anti-Human HLA-DR (clone L243) (filled histogram) or cFluor® B515 mouse IgG2a, κ isotype control (open histogram). Data shown is gated on lymphocytes.

Spectral signature of cFluor® B515 from a Cytek® Aurora 5 laser system equipped with 355 nm, 405 nm, 488 nm, 561 nm and 640 nm lasers using CytekAssaySettings.



REFERENCES

1. Korman, A J et al. 1982. Proc Natl Acad Sci U S A. 79(19):6013-6017
2. Shackelford DA, et al. 1982. Immunol Rev. 66:133-87
3. Walseng E, et al. 2008. J Biol Chem. 23;283(21):14717-27

**For Research Use Only. Not intended for use in diagnostic procedures.**

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