## HLA-DR (L243) Mouse mAb (PE Conjugate)



Orders:	877-616-CELL (2355) orders@cellsignal.com
Support:	877-678-TECH (8324)
Web:	info@cellsignal.com cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: FC-FP, FC-L	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Mouse IgG2a kappa	<b>UniProt ID:</b> #P01903	Entrez-Gene Id: 3122		
Product Usage Information		<b>Application</b> Flow Cytometry (Fixed/Permeabilized) Flow Cytometry (Live)			<b>Dilution</b> 1:20 1:20		
Storage		Supplied in 10 mM NaH2PO4, 150 mM NaCl, 0.09% NaN3, 0.1% gelatin, pH 7.2. This product is stable for 12 months when stored at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.					
Specificity/Sensi	itivity	HLA-DR (L243) Mouse mAb (PE Conjugate) recognizes endogenous levels of total HLA-DR proteins. This antibody is specific to an epitope on the alpha subunit of the heterodimeric HLA-DR protein and binds a different epitope than the LN3 antibody clone. It does not cross-react with HLA-DP or HLA-DQ.					
Source / Purifica	tion	This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation.					
Description		This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometric analysis in human cells.					
Background		The human leukocyte antigen (HLA) system is a gene complex encoding the major histocompatibility complex (MHC) proteins in humans. These cell surface proteins are responsible for the regulation of antigen-specific immunity in humans. HLA genes are highly polymorphic, allowing them to fine-tune the adaptive immune response. HLAs corresponding to MHC class I (HLA-A, B, and C) present small peptide antigens from inside the cell, approximately 8 to 10 amino acids in length, to CD8 <sup>+</sup> T lymphocytes in order to activate a cytotoxic T cell response. HLAs corresponding to MHC class II (HLA-DP, DM, DO, DQ, and DR) present antigens from outside of the cell, approximately 15 to 24 residues in length, to CD4 <sup>+</sup> T helper cells, which in turn secrete cytokines and stimulate B cells to produce antibodies to that specific antigen. HLAs corresponding to MHC class II encode components of the complement system (1,2).					
Background Ref	erences	macrophages, other antigen presenting cells, and progenitor cells (3). 1. Marsh, S.G. et al. (2005) <i>Hum Immunol</i> 66, 571-636. 2. Shiina, T. et al. (2004) <i>Tissue Antigens</i> 64, 631-49.					
				·			
Species Reactivi	ty	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Applications Key	/	FC-FP: Flow Cytometry (Fixed/Permeabilized) FC-L: Flow Cytometry (Live)					
Cross-Reactivity	Кеу	H: Human					
Trademarks and	Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.					
		All other trademarks are more information.	e the property of their resp	ective owners. Visit	cellsignal.com/trademarks for		
<b>Limited Uses</b> Except as otherwise expressly agreed in a writing signed by a legally authorized represent the following terms apply to Products provided by CST, its affiliates or its distributors. Any terms and conditions that are in addition to, or different from, those contained herein, ur separately accepted in writing by a legally authorized representative of CST, are rejected a force or effect.				ts distributors. Any Customer's ontained herein, unless			

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.