

## HLA-DRB (MHC II) Antibody

Mouse Monoclonal Antibody [Clone L243]

| Catalog No      | Format  | Size   |
|-----------------|---|--------|
| 3123-MSM3-P0    | Purified Ab with BSA and Azide at 200ug/ml    | 20 ug  |
| 3123-MSM3-P1    | Purified Ab with BSA and Azide at 200ug/ml    | 100 ug |
| 3123-MSM3-P1ABX | Purified Ab WITHOUT BSA and Azide at 1.0mg/ml | 100 ug |

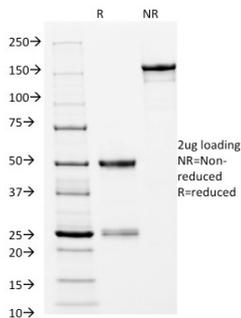
| Applications            | Tested Dillution    | Note |
|-------------------------|---------------------|------|
| Flow Cytometry (Flow)   | 1-2ug/million cells |      |
| Immunofluorescence (IF) | 1-3ug/ml            |      |

### Product Details

|                               |   |
|-------------------------------|---|
| <b>Clone</b>                  | L243  |
| <b>Gene Name</b>              | HLA-DRB1  |
| <b>Immunogen</b>              | Activated human peripheral blood mononuclear cells  |
| <b>Host</b>                   | Mouse   |
| <b>Clonality</b>              | Monoclonal  |
| <b>Isotype / Light Chain</b>  | IgG2a / Kappa   |
| <b>Mol. Weight of Antigen</b> | ~28kDa (beta chain)   |
| <b>Cellular Localization</b>  | Autolysosome membrane, Cell membrane, Endoplasmic reticulum membrane, Late endosome membrane, Lysosome membrane |
| <b>Species Reactivity</b>     | Baboon, Chimpanzee, Dog, Human, Monkey, Squirrel  |
| <b>Positive Control</b>       | Daudi or HuT78 cells. Tonsil or lymph node., Ramos  |

\*Optimal dilution for a specific application should be determined.

### Product Images for HLA-DRB (MHC II) Antibody



SDS-PAGE Analysis of Purified HLA-DRB Mouse Monoclonal Antibody (L243).  
Confirmation of Integrity and Purity of Antibody.

### Specificity & Comments

This MAb reacts with the HLA-DRB1 antigen, a member of MHC class II molecules. It does not cross react with HLA-DP and HLA-DQ. It binds a conformational epitope on HLA-DR, which depends on the correct folding of the heterodimer. This MAb has been reported to block mixed lymphocyte reactions. The L243 antibody recognizes a different epitope than the LN3 monoclonal antibody, and these antibodies do not cross-block binding to each other's respective epitopes. HLA-DR is a heterodimeric cell surface glycoprotein comprised of a 36kD alpha (heavy) chain and a 28kD beta (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. It is an excellent histiocytic marker in paraffin sections producing intense staining. True histiocytic neoplasms are similarly positive. HLA-DR antigens also occur on a variety of epithelial cells and their corresponding neoplastic counterparts.

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### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

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### Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

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### Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

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### Research Areas

Cardiovascular, Cytokine Signaling, Dendritic Cell Marker, Immunology

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