# HLA-DRB (MHC II) Antibody

Mouse Monoclonal Antibody [Clone SPM289]

| Catalog No | Format | Size |
|---|---|---|
| 3123-MSM1X-P0 | Purified Ab with BSA and Azide at 200ug/ml | 20 ug |
| 3123-MSM1X-P1 | Purified Ab with BSA and Azide at 200ug/ml | 100 ug |
| 3123-MSM1X-P1ABX | Purified Ab WITHOUT BSA and Azide at 1.0mg/ml | 100 ug |

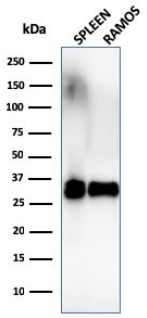
| Applications | Tested Dillution | Note |
|---|---|---|
| Flow Cytometry (Flow) | 1-2ug/million cells | |
| Immunofluorescence (IF) | 1-3ug/ml | |
| Immunohistochemistry (IHC) | 1-2ug/ml | 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes |
| Western Blot (WB) | 2-4ug/ml | |

## Product Details

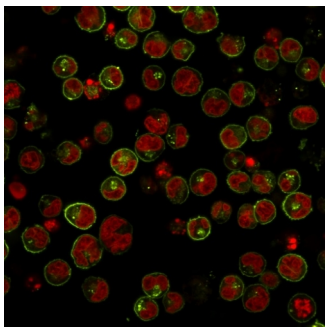
| | |
|---|---|
| **Clone** | SPM289 |
| **Gene Name** | HLA-DRA |
| **Immunogen** | Activated human peripheral blood mononuclear cells |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Isotype / Light Chain** | IgG2b / Kappa |
| **Mol. Weight of Antigen** | ~28kDa (beta chain) |
| **Cellular Localization** | Autolysosome membrane, Cell membrane, Early endosome membrane, Endoplasmic reticulum membrane, Late endosome membrane, Lysosome membrane |
| **Species Reactivity** | Human, Monkey |
| **Positive Control** | Daudi or HuT78 cells. Spleen, Raji, Ramos, tonsil or lymph node. |

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

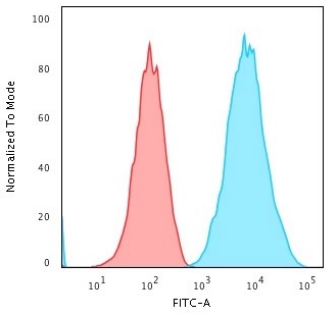
## Product Images for HLA-DRB (MHC II) Antibody



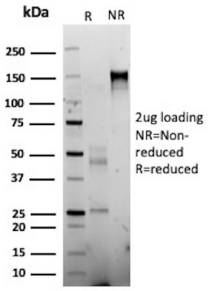

Western Blot Analysis of Ramos cells and human spleen tissue lysate using HLA-DR Monoclonal Antibody (SPM289).



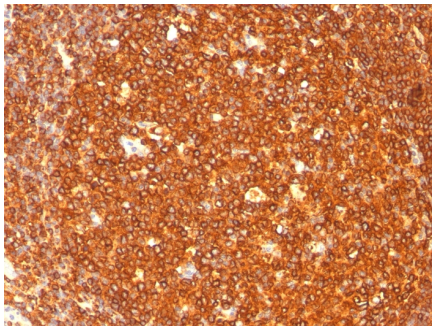
Immunofluorescence Analysis of Raji cells labeling HLA-DR with HLA-DR Monoclonal Antibody (SPM289) conjugated with APC (Green) The nuclear counterstain is Reddot (Red)




Flow Cytometric Analysis of human Raji cells using HLA-DR Monoclonal Antibody (SPM289) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).




SDS-PAGE Analysis of Purified HLA-DRB Mouse Monoclonal Antibody (SPM289). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human Tonsil stained with HLA-DR Monoclonal Antibody (SPM289).

## Specificity & Comments

This MAb reacts with the beta-chain of HLA-DR antigen, a member of MHC class II molecules. It does not cross react with HLA-DP and HLA-DQ. The L243 antibody recognizes a different epitope than the SPM289 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 36kDa alpha (heavy) chain and a 28kDa 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.

## 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.

## 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.

## Research Areas

Cardiovascular, Cytokine Signaling, Dendritic Cell Marker, Immunology

## 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.