HLA-DRB (MHC II) Antibody

Mouse Monoclonal Antibody [Clone SPM423]

Catalog No	Format	Size
3123-MSM1XXX-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
3123-MSM1XXX-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
3123-MSM1XXX-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

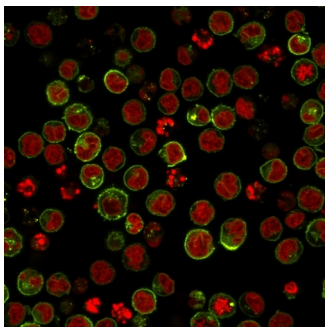
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling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

Product Details

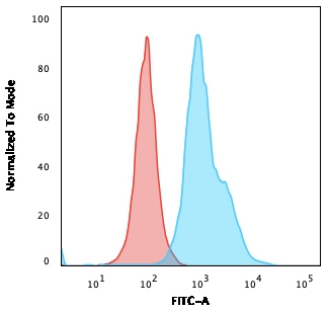
Clone	SPM423
Gene Name	HLA-DRB1
Immunogen	Activated human peripheral blood mononuclear cells
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2b / Kappa
Mol. Weight of Antigen	~28kDa (beta chain)
Cellular Localization	Autolysosome membrane, Cell membrane, Endoplasmic reticulum membrane, Late 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.*

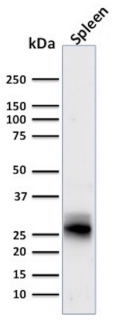
Product Images for HLA-DRB (MHC II) Antibody



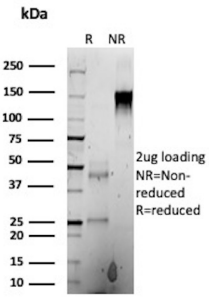
Immunofluorescence Analysis of Raji cells labeling HLA-DR with HLA-DR Monoclonal Antibody (SPM423) conjugated with CF594 (Green). The nuclear counterstain is Reddot (Red)



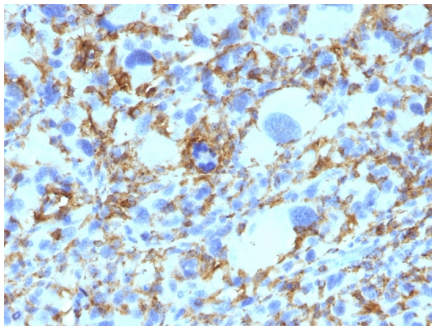
Flow Cytometric Analysis of human Raji cells using HLA-DR MAb (SPM423) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



Western Blot Analysis of human Spleen tissue lysate using HLA-DRMonoclonal Antibody (SPM423).



SDS-PAGE Analysis of Purified HLA-DRB Mouse Monoclonal Antibody (SPM423).Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human Histiocytoma stained with HLA-DR Monoclonal Antibody (SPM423).

Specificity & Comments

This MAb reacts with a 28kDa chain of HLA-DRB1 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 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 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. Loss of HLA-DR expression is related to tumor microenvironment and predicts adverse outcome in diffuse large B-cell lymphoma.

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.