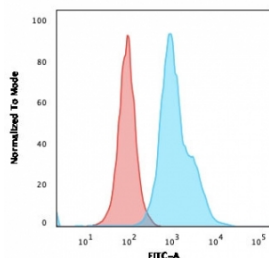


## Anti-HLA-DRB1 Antibody (MHC II) [clone SPM423] (V2589)

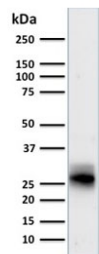
Catalog No.	Formulation	Size
V2589-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2589-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2589SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2589IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

[Bulk quote request](#)

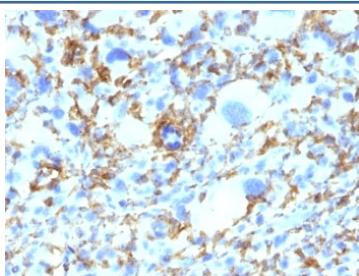
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG2b, kappa
<b>Clone Name</b>	SPM423
<b>Purity</b>	Protein G affinity chromatography
<b>UniProt</b>	P01911
<b>Localization</b>	Cell surface
<b>Applications</b>	Flow Cytometry : 1-2ug/10 <sup>6</sup> cells Immunofluorescence : 1-2ug/ml Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 0.25-0.5ug/ml for 30 min at RT
<b>Limitations</b>	This anti-HLA-DRB1 antibody is available for research use only.



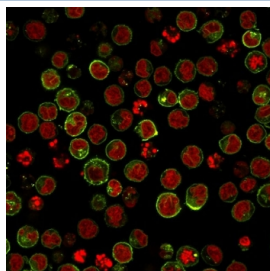
Flow cytometry testing of human Raji cells with anti-HLA-DRB1 antibody (clone SPM423); Red=isotype control, Blue= anti-HLA-DRB1 antibody.



Western blot testing of human spleen lysate with anti-HLA-DRB1 antibody (clone SPM423). Predicted molecular weight ~30 kDa.



Formalin-fixed, paraffin-embedded human Histiocytoma stained with anti-HLA-DRB1 antibody (clone SPM423).



Immunofluorescent staining of human Raji cells with anti-HLA-DRB1 antibody (clone SPM423, green) and Reddot nuclear stain (red).

## Description

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. 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.

## Application Notes

Optimal dilution of the anti-HLA-DRB1 antibody should be determined by the researcher.

1. Staining of formalin-fixed tissues is enhanced by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min
2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

## Immunogen

Activated human peripheral blood mononuclear cells were used as the immunogen for the anti-HLA-DRB1 antibody.

## Storage

Store the anti-HLA-DRB1 antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).