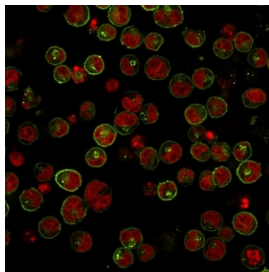


## HLA-DRB1 Antibody (MHC II) [clone SPM289] (V2587)

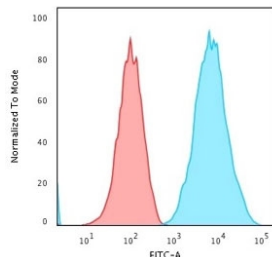
Catalog No.	Formulation	Size
V2587-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2587-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2587SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2587IHC-7ML	Prediluted 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](#)

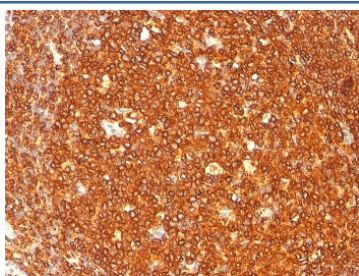
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG2b, kappa
<b>Clone Name</b>	SPM289
<b>Purity</b>	Protein G affinity chromatography
<b>UniProt</b>	P01911
<b>Localization</b>	Cell surface
<b>Applications</b>	<p>Flow Cytometry : 1-2ug/million cells in 0.1ml</p> <p>Immunofluorescence : 2-4ug/ml</p> <p>Western Blot : 1-2ug/ml</p> <p>Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT</p> <p>Prediluted IHC Only Format : incubate for 30 min at RT (1)</p>
<b>Limitations</b>	This HLA-DRB1 antibody is available for research use only.



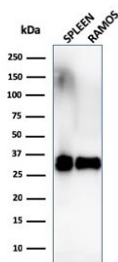
Immunofluorescent staining of human Raji cells with HLA-DRB1 antibody (clone SPM289, green) and Reddot nuclear stain (red).



Flow cytometry testing of human Raji cells with HLA-DRB1 antibody (clone SPM289); Red=isotype control, Blue= HLA-DRB1 antibody.



IHC staining of FFPE human tonsil with HLA-DRB1 antibody (clone SPM289). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.



Western blot testing of human spleen and Ramos lysate with HLA-DRB1 antibody (clone SPM289). Predicted molecular weight ~30 kDa.

## Description

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 SPM289 antibody recognizes a different epitope than the [L243 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.

## Application Notes

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

1. 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 HLA-DRB1 antibody.

## **Storage**

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