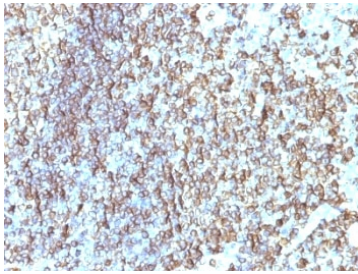


## HLA-DRB1 Antibody (MHC II) [clone SPM288] (V2588)

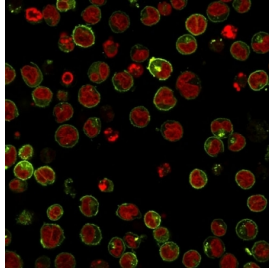
| Catalog No.    | Formulation   | Size   |
|----------------|---|--------|
| V2588-100UG    | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide                      | 100 ug |
| V2588-20UG     | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide                      | 20 ug  |
| V2588SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free  | 100 ug |
| V2588IHC-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](#)

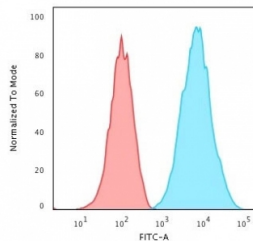
|                           |   |
|---------------------------|---|
| <b>Availability</b>       | 1-3 business days   |
| <b>Species Reactivity</b> | Human   |
| <b>Format</b>             | Purified  |
| <b>Host</b>               | Mouse   |
| <b>Clonality</b>          | Monoclonal (mouse origin)   |
| <b>Isotype</b>            | Mouse IgG2b, kappa  |
| <b>Clone Name</b>         | SPM288  |
| <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<br>Immunofluorescence : 2-4ug/ml<br>Western Blot : 1-2ug/ml<br>Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT |
| <b>Limitations</b>        | This HLA-DRB1 antibody is available for research use only.  |



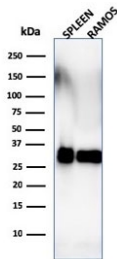
IHC: Formalin-fixed, paraffin-embedded human tonsil stained with HLA-DRB1 antibody (clone SPM288).



Immunofluorescent staining of human Raji cells with HLA-DRB1 antibody (clone SPM288, green) and Reddot nuclear stain (red).



Flow cytometry testing of human Raji cells with HLA-DRB1 antibody (clone SPM288); Red=isotype control, Blue= HLA-DRB1 antibody.



Western blot testing of human spleen and Ramos lysate with HLA-DRB1 antibody (clone SPM288). Predicted molecular weight ~30 kDa.

## 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 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 HLA-DRB1 antibody.

## Storage

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