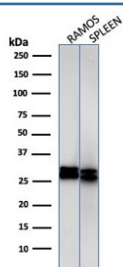


## HLA-DRB1 Antibody (MHC II) [clone HLA-DRB/1067] (V2590)

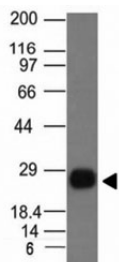
Catalog No.	Formulation	Size
V2590-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2590-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2590SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2590IHC-7ML	Prediluted 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](#)

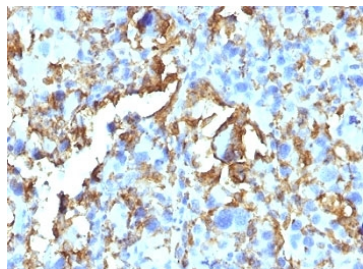
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG2b, kappa
<b>Clone Name</b>	HLA-DRB/1067
<b>Purity</b>	Protein G affinity chromatography
<b>UniProt</b>	P01911
<b>Localization</b>	Cell surface
<b>Applications</b>	Flow Cytometry : 1-2ug/10 <sup>6</sup> cells Immunofluorescence : 2-4ug/ml Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 0.25-0.5ug/ml for 30 min at RT
<b>Limitations</b>	This HLA-DRB1 antibody is available for research use only.



Western blot Analysis of human 1) Ramos and 2) spleen cell Lysate using HLA-DRB1 antibody (clone HLA-DRB/1067). Predicted molecular weight ~30 kDa.



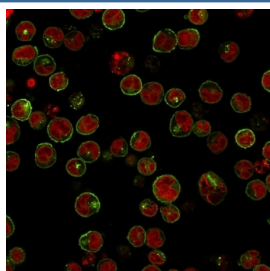
Western blot Analysis of Ramos cell Lysate using HLA-DRB1 antibody (HLA-DRB/1067).  
Predicted molecular weight ~30 kDa.



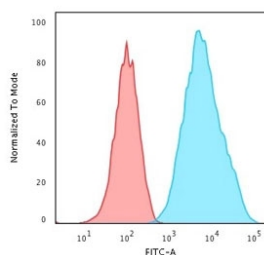
IHC: Formalin-fixed, paraffin-embedded human Histiocytoma stained with HLA-DRB antibody (clone HLA-DRB/1067).



IHC: Formalin-fixed, paraffin-embedded human tonsil stained with HLA-DRB antibody (clone HLA-DRB/1067).



Immunofluorescent staining of Raji cells with HLA-DRB1 antibody (green, clone HLA-DRB/1067) and Reddot nuclear stain (red).



FACS staining of Raji cells with HLA-DRB1 antibody (clone HLA-DRB/1067);  
Red=isotype control, Blue= HLA-DRB1 antibody.

## Description

HLA-DRB1 antibody clone HLA-DRB/1067 is a monoclonal antibody specific for HLA-DRB1, a critical component of class II major histocompatibility complex molecules. These heterodimeric proteins present peptides from extracellular antigens to CD4 positive T lymphocytes, initiating adaptive immune responses. NSJ Bioreagents offers HLA-DRB1 antibody clone HLA-DRB/1067 to support research in immunology, transplantation, oncology, and autoimmunity.

The antibody shows robust membranous staining on B lymphocytes, dendritic cells, and macrophages. Its specificity makes it a reliable tool for identifying antigen-presenting cells in human tissues. In immunology, it is frequently applied to

evaluate immune activation and to study how HLA class II expression shapes T cell responses.

In transplantation research, the antibody contributes to understanding compatibility and rejection risk. Because HLA-DRB1 variation is a major determinant of transplant success, detection of its expression is vital for donor-recipient evaluation.

In cancer studies, researchers use this antibody to investigate immune evasion strategies. Many malignancies downregulate HLA-DR expression, impairing recognition by helper T cells. Detection with this antibody supports studies into tumor immunology and therapeutic targeting of immune pathways.

Autoimmune diseases also have strong links to HLA-DRB1 alleles. Clone HLA-DRB/1067 has been applied in studies of rheumatoid arthritis and multiple sclerosis, where altered HLA-DRB1 expression contributes to disease progression.

Technically validated in cell-based and tissue-based applications, the antibody provides consistent and specific staining. Alternate names include MHC class II beta chain antibody, HLA-DRB class II antigen antibody, and HLA class II DR beta chain antibody.

This mAb reacts with the beta-chain of HLA-DRB1 antigen, a member of MHC class II molecules. It does not cross react with HLA-DP and HLA-DQ. Its epitope is different from that of mAb L243.

## 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).