

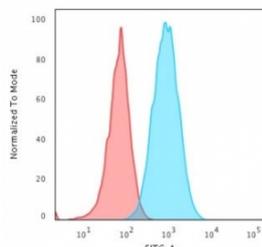
## HLA-DR Antibody (MHC II) [clone TAL 1B5] (V7421)

Catalog No.	Formulation	Size
V7421-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7421-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7421SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V7421IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

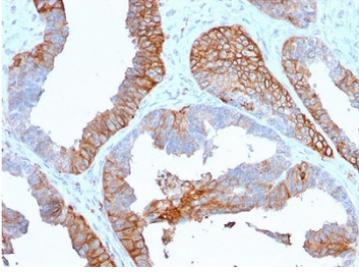
 Citations (14)

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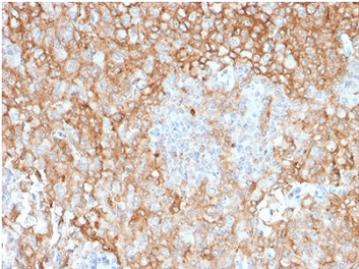
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG1, kappa
<b>Clone Name</b>	TAL 1B5
<b>Purity</b>	Protein G affinity chromatography
<b>UniProt</b>	P01903
<b>Localization</b>	Cell surface
<b>Applications</b>	Flow Cytometry : 1-2ug/10 <sup>6</sup> cells Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
<b>Limitations</b>	This HLA-DR antibody is available for research use only.



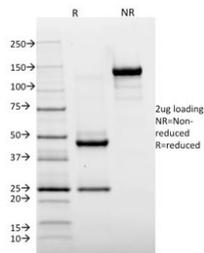
Flow cytometry testing of human Raji cells with HLA-DR antibody (clone TAL 1B5); Red=isotype control, Blue= HLA-DR antibody.



IHC staining of FFPE human prostate cancer with HLA-DR antibody (clone TAL 1B5).  
 HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.



IHC staining of FFPE human lung cancer with HLA-DR antibody (clone TAL 1B5). HIER:  
 boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free HLA-DR antibody (clone TAL 1B5) as confirmation of integrity and purity.

## Description

Major histocompatibility complex (MHC) class II molecules destined for presentation to CD4+ helper T cells is determined by two key events. These events include the dissociation of class II-associated invariant chain peptides (CLIP) from an antigen binding groove in MHC class II/ dimers through the activity of MHC molecules HLA-DM and -DO, and subsequent peptide antigen binding. Accumulating in endosomal/lysosomal compartments and on the surface of B cells, HLA-DM, -DO molecules regulate the dissociation of CLIP and the subsequent binding of exogenous peptides to HLA class II molecules (HLA-DR, -DQ and -DP) by sustaining a conformation that favors peptide exchange. RFLP analysis of HLA-DM genes from rheumatoid arthritis (RA) patients suggests that certain polymorphisms are genetic factors for RA susceptibility. HLA-B belongs to the HLA class I heavy chain paralogs. Class I molecules play a central role in the immune system by presenting peptides derived from the endoplasmic reticulum lumen. HLA-B and -C can form heterodimers consisting of a membrane anchored heavy chain and a light chain. Polymorphisms yield hundreds of HLA-B and -C alleles.

## Application Notes

Optimal dilution of the HLA-DR 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

Human Bristol 8 cells were used as the immunogen for the HLA-DR antibody.

## Storage

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

