

HLA-DR (MHC II) Antibody

Mouse Monoclonal Antibody [Clone TAL 1B5]

Catalog No	Format	Size
3122-MSM4-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
3122-MSM4-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
3122-MSM4-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

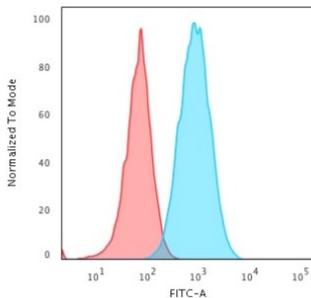
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

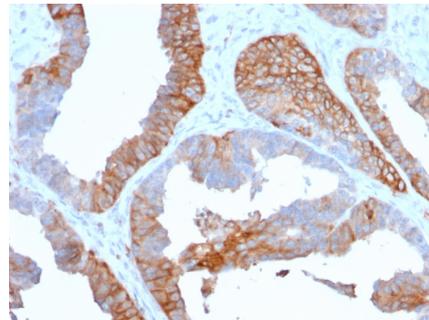
Clone	TAL 1B5
Gene Name	HLA-DRA
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	36kDa (alpha chain); 27kDa (beta chain); 63kDa (HLA-DR dimer)
Cellular Localization	Autolysosome membrane, Cell membrane, Early endosome membrane, Endoplasmic reticulum membrane, Late endosome membrane, Lysosome membrane
Species Reactivity	Human
Positive Control	Raji, Ramos or Daudi whole cell lysates. Spleen, tonsil or liver tissue lysates. Human melanoma, tonsil or lymph node.

*Optimal dilution for a specific application should be determined.

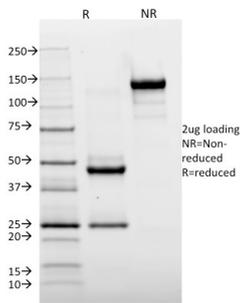
Product Images for HLA-DR (MHC II) Antibody



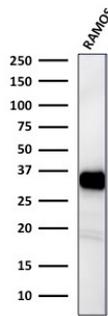
Flow Cytometric Analysis of Raji cells. HLA-DR Mouse Monoclonal Antibody (TAL 1B5) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype control (Red).



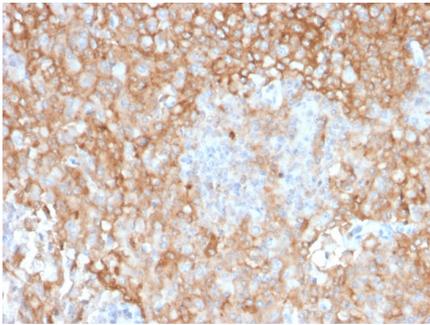
Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with HLA-DR Mouse Monoclonal Antibody (TAL 1B5).



SDS-PAGE Analysis of Purified HLA-DR Mouse Monoclonal Antibody (TAL 1B5). Confirmation of Purity and Integrity of Antibody.



Western Blot Analysis of Ramos cell lysates using HLA-DR Mouse Monoclonal Antibody (TAL 1B5).



Formalin-fixed, paraffin-embedded human Lung Tumor stained with HLA-DR Mouse Monoclonal Antibody (TAL 1B5).

Specificity & Comments

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 (-Microglobulin). Polymorphisms yield hundreds of HLA-B and -C alleles.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

B Cell Markers, Cardiovascular, Cytokine Signaling, Dendritic Cell Marker, Hematopoietic Stem Cells, Immunology