

36-2489: Anti-HLA-DR (MHC II) Monoclonal Antibody(Clone: TAL 1B5)

Clonality :	Monoclonal
Clone Name :	TAL 1B5
Application :	FACS, WB, IHC
Reactivity :	Human
Gene :	HLA-DR
Gene ID :	3122
Uniprot ID :	P01903
Alternative Name :	DR alpha chain; DRB1; DRB4; HLA class II histocompatibility antigen DR alpha chain; HLA DR1B; HLA DR3B; HLA DRA; HLA-DRA; HLADR4B; HLADRA1; HLADRB; Major histocompatibility complex class II DR alpha; Major histocompatibility complex class II DR beta 1/3/4/5
Isotype :	Mouse IgG1, kappa

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

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/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 condition :	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.

Application Note

Flow Cytometry (1-2ug/million cells); Western Blot (1-2ug/ml); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes 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);

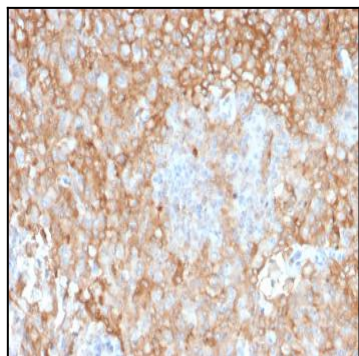


Fig. 1: Formalin-fixed, paraffin-embedded human Lung Tumor stained with HLA-DR Mouse Monoclonal Antibody (TAL 1B5).

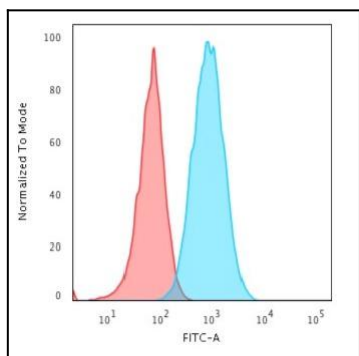


Fig. 2: Flow Cytometric Analysis of Raji cells. HLA-DR Mouse Monoclonal Antibody (TAL 1B5) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype control (Red).

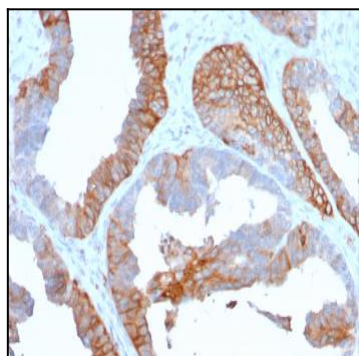


Fig. 3: Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with HLA-DR Mouse Monoclonal Antibody (TAL 1B5).

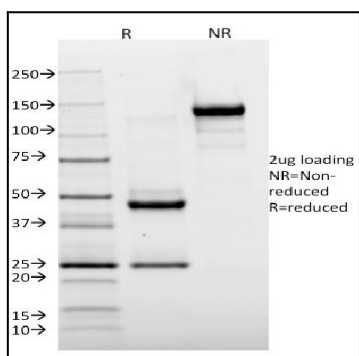


Fig. 4: SDS-PAGE Analysis Purified HLA-DR Mouse Monoclonal Antibody (TAL 1B5). Confirmation of Purity and Integrity of Antibody.

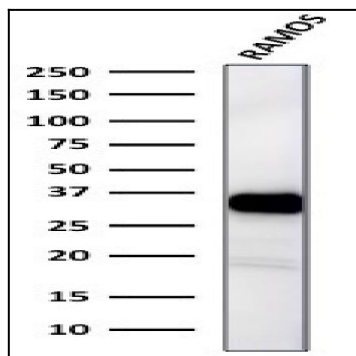


Fig. 5: Western Blot Analysis of Ramos cell lysates using HLA-DR Mouse Monoclonal Antibody (TAL 1B5).