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## 36-1236: Monoclonal Antibody to HLA-DRB (MHC II)(Clone: HLA-DRB/1067)

Clone Name: Monoclonal
Clone Name: HLA-DRB/1067
Application: IHC,FACS,WB,IF

Reactivity: Human
Gene: HLA-DRB1
Gene ID: 3123
Uniprot ID: P01911
Format: Purified

Alternative Name: HLA-DRB1,HLA-DRB2
Isotype: Mouse IgG2b, kappa

Immunogen Information: Activated human peripheral blood mononuclear cells

## **Description**

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. 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 cytoplasmic 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.

## **Product Info**

**Amount:** 100 μg

**Purification:** Affinity Chromatography

**Content:** 100 μg in 500 μl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly

toxic.

**Storage condition :** Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid

repeated freeze and thaw cycles.

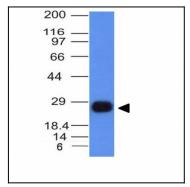
## **Application Note**

Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-4ug/ml); ,Western Blot (1-2ug/ml); ,Immunohistochemistry (Formalin-fixed) (0.25-0.5ug/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);

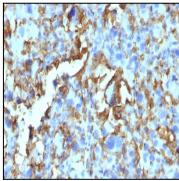


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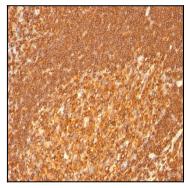
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Western Blot Anaysis of Ramos Cell Lyste using HLA-DRB Monoclonal Antibody (HLA-DRB/1067).



Formalin-fixed, paraffin-embedded human Histiocytoma stained with HLA-DRB Monoclonal Antibody (HLA-DRB/1067).



Formalin-fixed, paraffin-embedded human Tonsil stained with HLA-DRB Monoclonal Antibody (HLA-DRB/1067).