

## HLA-DRB1 monoclonal antibody

Catalog: MB23366

Host: Mouse

Reactivity: Human

### Background:

HLA-DRB1 belongs to the HLA class II beta chain paralogs. The class II molecule is a heterodimer consisting of an alpha (DRA) and a beta chain (DRB), both anchored in the membrane. It plays a central role in the immune system by presenting peptides derived from extracellular proteins. Class II molecules are expressed in antigen presenting cells. The beta chain is approximately 26-28 kDa. It is encoded by 6 exons. Exon one encodes the leader peptide; exons 2 and 3 encode the two extracellular domains; exon 4 encodes the transmembrane domain; and exon 5 encodes the cytoplasmic tail. Within the DR molecule the beta chain contains all the polymorphisms specifying the peptide binding specificities. Hundreds of DRB1 alleles have been described and some alleles have increased frequencies associated with certain diseases or conditions. For example, DRB1\*1302 has been related to acute and chronic hepatitis B virus persistence. There are multiple pseudogenes of this gene.

### Product:

Purified antibody in PBS with 0.05% sodium azide

### Molecular Weight:

29.9kDa

### Swiss-Prot:

P01911

### Purification&Purity:

The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB:1/500 - 1/2000 IHC:1/200 - 1/1000 FC:1/200 - 1/400

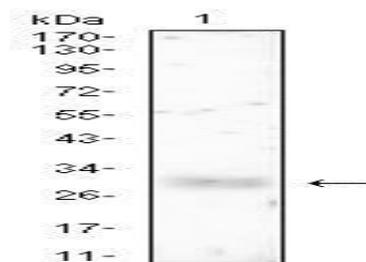
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

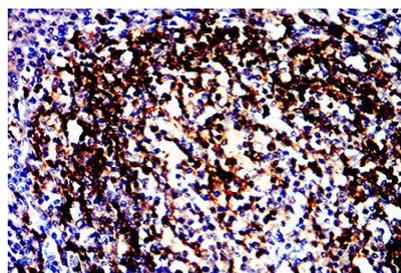
### Isotype:

Mouse IgG1

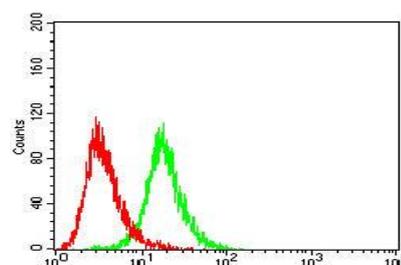
### DATA:



Western blot analysis using HLA-DRB1 mouse mAb against Raji (1) cell lysate.



Immunohistochemical analysis of paraffin-embedded human tonsil tissues using HLA-DRB1 mouse mAb with DAB staining.



Flow cytometric analysis of Raji cells using HLA-DRB1 mouse mAb (green) and negative control (red).

### Note:

For research use only, not for use in diagnostic procedure.

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## PRODUCT DATA SHEET

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