



## Mouse anti MHC II (HLA-DP and DR) Monoclonal Antibody

Alternative Name(s): Major histocompatibility complex, class II

### Order Information

- **Description:** MHC II (HLA-DP and DR)
- **Catalogue:** 500-6144
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Mouse
- **Clone:** ABM288
- **Application:** IHC(P)
- **Reactivity:** Hu

### **ANTIGEN PREPARATION**

Activated human peripheral blood mononuclear cells

### **BACKGROUND**

HLA-DR, like other MHC class II molecules, is a transmembrane glycoprotein composed of an alpha chain (36 kDa) and a Beta chain (27 kDa). It is expressed primarily on antigen presenting cells such as B lymphocytes, monocytes, macrophages, thymic epithelial cells and activated T lymphocytes. Three loci, DR, DQ and DP, encode the major expressed products of the human class II region. The human MHC class II molecules bind intracellularly processed peptides and present them to T helper cells. They therefore have a critical role in the initiation of the immune response

### **PURIFICATION**

The mouse IgG is purified by Protein A-Affinity Chromatography according to Isotyping

### **FORMULATION**

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

### **SPECIFICITY**

This antibody recognizes human MHC II (HLA-DP and DR). The other species not tested.

### **STORAGE**

The antibodies are stable for 24 months from date of receipt when stored at -20oC to -70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

### **APPLICATIONS/SUGGESTED WORKING DILUTIONS\***

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 36&27
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

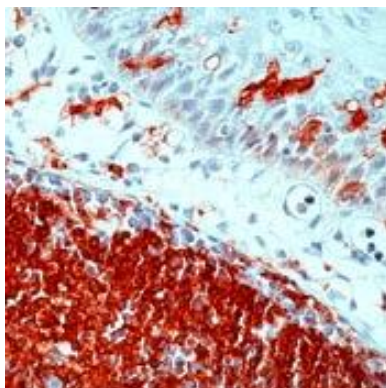
\*Optimal dilutions should be determined by researchers for the specific applications.

### **FOR RESEARCH USE ONLY.**

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## DATA ATTACHMENTS



Immunohistochemistry: Human Tonsil tissue stained with Mouse anti MHC II antibody (Cat. 500-6144) at 1:50 for 30 min @ RT, visualized by using peroxidase-conjugate and AEC chromogen. Note: Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

## REFERENCES

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