



## Mouse anti HLA-DR Monoclonal Antibody

Alternative Name(s): nan

### Order Information

- **Description:** HLA-DR
- **Catalogue:** 605-480
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Mouse
- **Clone:** L243
- **Application:** IHC(P), FC
- **Reactivity:** Hu

### **ANTIGEN PREPARATION**

A recombinant protein of human HLA-DR

### **BACKGROUND**

HLA-DR (Human Leukocyte Antigen – DR isotype) is  $\alpha\beta$  heterodimeric cell surface glycoprotein, MHC class II cell surface receptor. Both  $\alpha$  and  $\beta$  chains are anchored in the membrane, where  $\alpha$  (heavy) chain is 36 kD and a  $\beta$  (light) chain is 27 kD. Each subunit contains two extracellular domains, a membrane-spanning domain and a cytoplasmic tail. The primary function of HLA-DR is to present peptide antigens. The human MHC class II molecules bind intracellularly processed peptides and present them to T-helper cells that lead to the production of antibodies against this peptide antigen. They therefore have a critical role in the initiation of the immune response. The complex of HLA-DR and peptide constitutes a ligand for the T-cell receptor (TCR). HLA-DR is expressed primarily on antigen presenting cells such as B lymphocytes, monocytes, macrophages, thymic epithelial cells and activated T lymphocytes. The reduced HLA-DR expression on monocytes is considered to correlate with infectious complications and the development of sepsis. Studies have shown that 3–20% of HLA-DR molecules constitutively reside in the lipid rafts of various antigen-presenting cells.

### **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 HLA-DR protein. The other species are not tested.

### **STORAGE**

The antibodies are stable for 24 months from date of receipt when stored at  $-20^{\circ}\text{C}$  to  $-70^{\circ}\text{C}$ . The antibodies can be stored at  $2^{\circ}\text{C}$ - $8^{\circ}\text{C}$  for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

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

- Western Blot: 0.1-1  $\mu\text{g/ml}$
- ELISA: 0.01-0.1  $\mu\text{g/ml}$
- Immunoprecipitation: 2-5  $\mu\text{g/ml}$
- IHC: 2-10  $\mu\text{g/ml}$
- Flow cytometry: 0.5-5  $\mu\text{g}/10^6$  cells
- Molecular Weight: 34&28
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

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

AbboMax, Inc 2528 Qume Drive, Suite 8, San Jose, California 95131, USA  
1 408-573-1898 (Tel). 1 408-573-1858 (Fax). [www.abbomax.com](http://www.abbomax.com) [info@abbomax.com](mailto:info@abbomax.com)



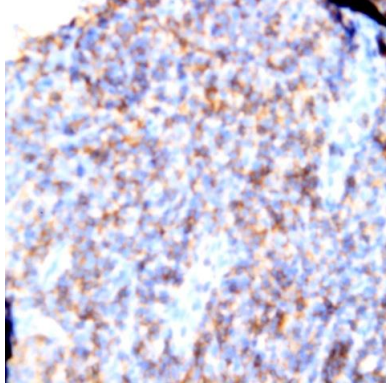
\*Optimal dilutions should be determined by researchers for the specific applications.

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## DATA ATTACHMENTS



Immunohistochemistry: Human Tonsil (FFPE) stained with Mouse anti- HLA-DR (Cat# 605-480) at 1:200 for 10 min @ RT. 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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