

## Anti-human HLA (MHC) class II (clone KUL/05)

Catalog No: MP-AA-5

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### BACKGROUND

Class II Human Leukocyte Antigens (HLA) are surface molecules expressed by professional antigen-presenting cells (dendritic cells, macrophages, B-lymphocytes and activated T cells), as well as certain normal and neoplastic non-lymphoid cells. There are three major allelic series of classical, surface-expressed class II molecules: HLA-DR, HLA-DQ, and HLA-DP, each comprising two polymorphic, glycosylated polypeptide chains ( $\alpha$  and  $\beta$ ) and associating with distinct sets of small peptide antigens.

### PRODUCT

1. Each vial contains the indicated amount of IgG (caprylic acid purified) in 0,1% gelatine and 0,05 % NaN<sub>3</sub>.
2. Unpurified reagent is provided at the indicated amounts with 0.1% NaN<sub>3</sub>. Centrifuge the vial prior to use.

### SPECIFICITY

The murine monoclonal antibody MM-P-5 (IgG1) recognizes a *framework* epitope that is (i) shared by the  $\beta$  chains of HLA-DR, -DQ as well as -DP molecules, and (ii) is present on these molecules regardless of their native (surface-expressed), or denatured form.

### STORAGE

Store frozen, avoid repeated freeze-thawing. Stable for 2 yrs.

### SHIPPING CONDITIONS

Room temperature.

### RESEARCH USE

This antibody is for laboratory research use only, not for human or in-vivo use.

### APPLICATIONS

*Flow cytometry*  
10-20  $\mu$ g/ml.

*Immunohistochemistry (fluorescence, enzymatic)*  
Acetone-fixed cryostatic sections and cytopins (5  $\mu$ g/ml). Formalin-fixed, paraffin-embedded sections with **no need for antigen retrieval procedures**. Under these conditions an overnight incubation was found to provide the most consistent staining patterns (2-5  $\mu$ g/ml).

*Immunoprecipitation*  
1 to 5  $\mu$ g, using rabbit anti murine Ig and protein A-sepharose beads.

*Western blotting*  
1  $\mu$ g/ml.

### REFERENCES

1. *J Immunogenetics* (1989) **16**: 203-160.
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