

**Mouse Anti-HLA-DP (MHC II) [SPM421]: MC0055**

**Intended Use:** For Research Use Only

**Description:** Recognizes a non-polymorphic determinant of DP-MHC class II. MHC class II antigens are transmembrane glycoproteins of non-covalently linked  $\alpha$  (33-35kDa) and  $\beta$  (27-30kDa) chains. It reportedly reacts with B- & non-T, non-B cell lines but not with T- and myeloid cell lines and leukemias. Differential expression of MHC class II antigens on fetal and adult lymphocytes, malignant B cells appears to reflect the stage of cell differentiation which may be useful in the study of lymphoproliferative disorders.

**Specifications**

Clone: SPM421  
Source: Mouse  
Isotype: IgG2b/k  
Reactivity: Human  
Localization: Membrane  
Formulation: Protein A/G purified antibody from bioreactor concentrate. Prepared in 10mM PBS with 0.2% BSA and < 0.09% sodium azide (NaN<sub>3</sub>)  
Storage: Store at 2°- 8°C. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles  
Applications: IHC, Flow Cyt., ICC/IF  
Package:

Description	Catalog No.	Size
HLA-DP (MHC II) Concentrated	MC0055	1 ml

**IHC Procedure\***

Positive Control Tissue: Raji cells. Tonsil, lymph node  
Concentrated Dilution: 50-200  
Pretreatment: Citrate pH6.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
Incubation Time and Temp: 30-60 minutes @ RT  
Detection: Refer to the detection system manual

\* Result should be confirmed by an established diagnostic procedure.

**References**

1. Low expression of HLA-DRA, HLA-DPA1, and HLA-DPB1 is associated with poor prognosis in pediatric adrenocortical tumors (ACT). Leite FA, et al. *Pediatr Blood Cancer*. Nov;61(11):1940-8, 2014.
2. The HLA-DP2 protein binds the immunodominant epitope from myelin basic protein, MBP85-99, with high affinity. Hansen BE, et al. *Tissue Antigens*. Mar;77(3):229-34, 2011.
3. MHC class II+ (HLA-DP-like) cells in the cow reproductive tract: II. Immunolocalization of MHC class II+ cells in oviduct and vagina. Eren U, et al. *Anat Histol Embryol*. Aug;38(4):286-91, 2009.
4. Studies on the distribution of the antigens detected by some newly prepared monoclonal antibodies in normal hemopoietic and leukemic cells. Babusikova O; et al. *Neoplasma*, 32(6):657-62, 1985.
5. Monoclonal antibodies against MHC class II antigens elicited with a human non-T, non-B acute lymphoblastic leukemia cell line. Polakova K; et al. *Neoplasma*, 32(6):641-8, 1985.