Datasheet

Mouse mAb to **MHC II DR**
Clone **EBS-O-110**
Isotype **IgG2b-κ**

Source

A C3H mouse was immunized with Human PBL and HLA-homozygous B-LCL line.
Fusion partner: Sp2/0.

Specifications

MHC class II molecules are encoded by polymorphic MHC genes and consist of a non-covalent complex of an α and β chain. Helper T lymphocytes bind antigenic peptides presented by MHC class II molecules. MHC class II molecules bind 13-18 amino acid antigenic peptides. Accumulating in endosomal/lysosomal compartments and on the surface of B cells, HLA-DM and -DO molecules regulate binding of exogenous peptides to class II molecules (HLA-DR) by sustaining a conformation that favors peptide exchange. The differential structural properties of MHC class I and class II molecules account for their respective roles in activating different populations of T lymphocytes.

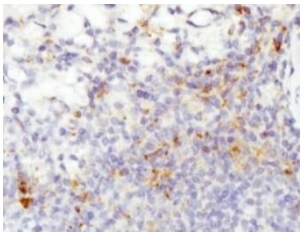

Figure 1: Human spleen stained for HLA-DR (frozen)

Species reactivity

Positive: human.

Applications

Demonstration of MHC II DR.

Flow cytometry	Frozen sections	Immunofluorescence	Paraffin sections
+	+	+	–

Format

Produced in tissue culture, contains no host Ig. Antibodies are affinity purified and presented in PBS with 0,02 % sodium azide.
Stored at 4°C- 8°C, shelf life is at least 24 months after purchase.

Dilution advice

- Flow cytometry (0,5-1,0 µg/million cells in 0,1 ml).
- Immunofluorescence (0,5-1,0 µg/ml).
- Immunohistology (1-2 µg/ml for 30 min at RT; an appropriate antigen retrieval method for staining of formalin-fixed tissues has not been established to date).

Positive control

Human PBL.

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References

- Sparrow RL, et al., *Transplantation* **42**: 647-652 (1986).
- Chorvath B et al. *Neoplasma* **34(4)**: 417-425 (1987).
- Horejsi V et al. *Tissue Antigens* **32(1)**: 6-11 (1988).
- Polakova K et al. *Neoplasma* **32(6)**: 641-8 (1985).