

Mouse mAb to **MHC II DP+DR
(beta chain)**
Clone **Bra14**
Isotype **IgG3-κ**

Datasheet



Source

A BALB/c mouse was immunized with nuclei from pokeweed mitogen-stimulated PBL.
Fusion partner: NS-1.

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.

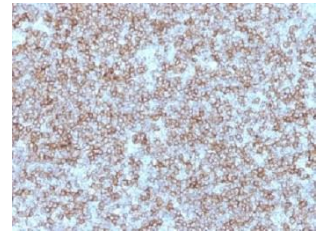


Figure 1: Human tonsil stained with Bra14 (paraffin)

Species reactivity

Positive: human.

Applications

Demonstration of MHC II DP and DR beta chain.

Flow cytometry	Frozen sections	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 μ g/million cells in 0,1 ml).
- Immunohistology (1-2 μ g/ml for 30 min at RT; staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes).

Positive control

Ramos, Daudi or HuT78 cells. Tonsil or lymph node.

References

- 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).