# Datasheet

Mouse mAb to   **MHC II DRB**
Clone   **LN-3**
Isotype   **IgG2b-κ**

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.
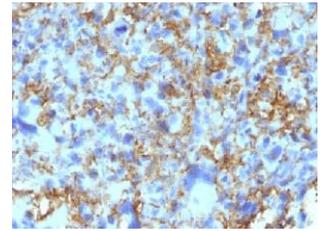
Figure 1: Human histiocytoma stained with LN3 (paraffin)

Species reactivity

Positive: human, monkey.
Negative: mouse.

Applications

Demonstration of MHC II DR.

Flow cytometry	Frozen sections	Paraffin sections
+	+	Citrate

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).
Immunohistology (1-2 µg/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).
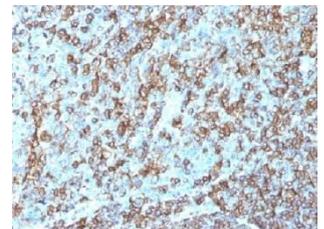
Figure 2: Human tonsil stained with LN3 (paraffin)

Positive control

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

References

➢ Marder, R.L. et al. *Lab. Invest.* **52**: 497-504 (1985).
➢ Andrade, R.E. et al. *Human Pathology* **19**: 932-941 (1988).
➢ Azumi N. et al. *Human Pathology* **19**: 1376-1382 (1988).

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