
Biotinylated Monoclonal Antibody To Human HLA-DR Marker for MHC class II

Monoclonal antibody EDU-1 recognizes the HLA DR antigen, an HLA class II antigen with homology to murine H-2E. HLA-DR is an $\alpha\beta$ heterodimer. The N-terminal domain of the mature protein forms an alpha-helix that constitutes the exposed part of the binding groove, the C-terminal cytoplasmic region interacts with the other chain forming a beta-sheet under the binding groove spanning to the cell membrane. Monoclonal antibody EDU-1 recognizes the alpha chain of the $\alpha\beta$ heterodimer on specialized antigen presenting cells (APCs) such as dendritic cells, B-cells, monocytes, macrophages and activated T-cells.

Product number: T-1381

Clone: EDU-1, biotinylated

Lot: 01PB1316

TECHNICAL AND ANALYTICAL CHARACTERISTICS:

Host species, isotype: Mouse IgG2b

Quantity: 100 μ g

Format: Affinity purified, biotinylated, lyophilized
Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.2mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 5mg/ml bovine serum albumin (BSA), and 0.05% (v/v) Kathon CG as a preservative.

Stability: Original vial: 1 year at 4° - 8°C
Stock solution or aliquots thereof: 1 year at -20°C. Avoid repeated thawing and freezing.

Applications: Each lot of this antibody has been tested and validated for immunohistochemistry (IHC); has also been described to work in FACS.

Approximate working dilution for IHC:

Frozen sections: 0.1 μ g/ml (1:2000)

Paraffin sections: not tested

Optimal dilutions should be determined by the end user.

Suggested positive control: Human tonsil

Please see www.bma.ch for protocols and general information.

Immunogen: n.a.

Antigen, epitope: The antigen is HLA-DR. The epitope has not been further characterized.

Antigen distribution: **Isolated cells:** Antigen presenting cells (macrophages, B-cells and dendritic cells) are the cells in which DR are typically found.

Specificity: **Human:** HLA-DR
Other: not tested.

Selected References:

Fernandez N, Labeta MO, Festenstein H.: A novel HLA class II molecule. Immunogenetics. 27: 363-9 (1988).

Arrizabalaga P, Mirapeix E, Darnell A, Torras A, Revert L.: Cellular immunity analysis using monoclonal antibodies in human glomerulonephritis. Nephron. 53: 41-9 (1989).

Ong GL, Mattes MJ.: Processing of antibodies to the MHC class II antigen by B-cell lymphomas: release of Fab-like fragments into the medium. Mol Immunol. 36(11-12): 777-88 (1999)

For *in vitro* research only. This product contains Kathon CG as a preservative.