

Anti-HLA-DR10 [Lym-1] Standard Size Ab03430-23.0

This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG2a format for improved compatibility with existing reagents assays and techniques.

Isotype and Format: Rabbit IgG, Kappa

Clone Number: Lym-1

Alternative Name(s) of Target: CD74; Beta chain HLA-DR; HLA-DR β -chain; β -chain; HLA class II histocompatibility antigen gamma chain; HLA-DR antigens-associated invariant chain; Ia antigen-associated invariant chain; Ii; p33

UniProt Accession Number of Target Protein: P04233

Published Application(s): Immunoperoxidase staining, IP, RIA, WB, FC, IF, IHC

Published Species Reactivity: Human

Immunogen: The original antibody was generated by immunizing mice with tumor cell nuclei preparations as immunogens.

Specificity: This antibody has high affinity for a discontinuous epitope on the β subunit of the human HLA-DR10 surface membrane antigen of malignant B cells, which is not expressed on normal lymphocytes. HLA-DR10 (DR10) is a HLA-DR serotype that recognizes the DRB1*1001 gene product.

Application Notes: This antibody could recognize cell lines of B-cell lineage but not cells of T-cell, myeloid, or erythroid derivation in a live cell radioimmunoassay. Flow cytometric analysis of 22 lymphoma biopsies showed that the majority of B-cell tumors were LYM-1 positive. Approximately 40% of B-cell chronic lymphocytic leukemias were found to be positive with Lym-1. The binding of this antibody to peripheral blot lymphocytes was assessed using indirect immunofluorescence staining. Immunoperoxidase staining of nonlymphoid human organs and tissues revealed weak reactivity of Lym-1. This antibody was also capable of immunoprecipitating HLA-DR10 antigen from Raji cells and ARH-77 myeloma cells. (PMID: 3542194). This antibody also was used for immunohistochemical staining of advanced B-cell NHL tissues from patients (PMID: 10809213). This antibody can be used to identify the HLA-DR variant HLA-DR10 in a western blot (PMID: 8917632). LYM-1 chimeric antigen receptor T cells were demonstrated to exhibit potent anti-tumor effects against B-cell lymphoma (PMID: 29261129).

Antibody First Published in: Epstein et al. Two new monoclonal antibodies, Lym-1 and Lym-2, reactive with human B-lymphocytes and derived tumors, with immunodiagnostic and immunotherapeutic potential. Cancer Res. 1987 Feb 1;47(3):830-40. [PMID:3542194](#)

Note on publication: Describes the immunodiagnostic and immunotherapeutic potential of two

monoclonal antibodies reactive with tumor derived human B cell lymphocytes.

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.