

Anti-CD74 [LL1 (EPB1)] Bulk Size Ab01684-3.3-BT

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This reformatted mouse antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Mouse IgG2b, Fc Silent™, Kappa

Clone Number: LL1 (EPB1)

Alternative Name(s) of Target: Ii; p33; DHLAG; HLADG; Ia-GAMMAHLA; HLA Class II histocompatibility antigen gamma chain; HLA-DR antigens-associated invariant chain; Ia antigen-associated invariant chain;

UniProt Accession Number of Target Protein: P04233

Published Application(s): IP, RIA, WB, FC

Published Species Reactivity: Human

Immunogen: This antibody was generated by immunizing female BALB/c mice with whole Raji cells or a crude membrane preparation.

Specificity: This antibody reacts with the cell surface epitope of the invariant chain (Ii) subunit of the immature MHC class-II antigen CD74.

Application Notes: Radioimmunobinding and flow cytometric analysis was used to analyse binding of LL1 to peripheral blood. LL1 did not react with T cell lines nor with normal diploid cells. The reactivity of LL1 (EPB-1) to the tumor cells was checked using a live cell indirect immunofluorescence staining assay. LL1 stained positive for cell lines Raji (maxilla), Daudi (B-lymphoblast), RAMOS (B-lymphocyte), SU-DHL-7, ARH-77 (plasma cell leukemia), HS-Sultan (plasmacytoma). LL1 is reported to recognize most of the small and large lymphocytes of the germinal centre and no reactivity to marginal zone B-cells. It is also reported to react with interdigitating histiocytes of the T-cell zones. It was further reported that LL1 bound positively to Western blotted Raji cell antigens (PMID: 2663143). The specificity of LL1 for Ii subunit was determined by immunoprecipitation. Radiolabelled antibodies were used for internalization and catabolism of the antibody and it was seen that LL1 was internalized and catabolized very quickly as compared to some other antibodies like those which are specific for CD19, CD22 and anti-transferrin receptor. (PMID: 8947500). LL1 was evaluated to be a potential candidate for bone marrow imaging using Tcm labelled LL1 sulphur colloid imaging. (PMID: 9076770)

Antibody First Published in: Pawlak-Byczkowska et al. Two New Monoclonal Antibodies EPB-1 and EPB-2 Reactive with Human Lymphoma1. Cancer Research (1989); Volume 49; pg 4568-4577.

[PMID:2663143](#)

Note on publication: Describes the generation and immunohistochemical characterization of antibody.

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. 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.