

## Anti-CD74 [LN-2] Standard Size Ab01546-10.3

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

This chimeric human 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:** Human IgG1, Fc Silent™, Kappa

**Clone Number:** LN-2

**Alternative Name(s) of Target:** Ia antigen; HLA class II histocompatibility antigen gamma chain; HLA-DR antigens-associated invariant chain; Ia antigen-associated invariant chain; Ii; p33; LN2

**UniProt Accession Number of Target Protein:** P04233

**Published Application(s):** IP, WB, ELISA, FC, IF, IHC

**Published Species Reactivity:** Rat, Human, Mouse

**Immunogen:** This antibody was raised by immunizing mice with SU-DHL-4 lymphoma cells.

**Specificity:** LN-2 antibody recognizes CD74. It reacts with an epitope residing within 60 amino acids of the extracytoplasmic, COOH terminus of the protein. CD74 is a type II transmembrane protein which binds to the peptide binding groove of newly synthesized MHC class II alpha/beta heterodimers and prevents their premature association with endogenous polypeptides.

**Application Notes:** Anti-CD74 has been shown to be useful in differentiating atypical fibroxanthoma (-) from malignant fibrous histiocytoma (+). This antibody can be used for the identification of B cell lymphoma and leukemias. It also stains activated neoplastic cells in T cell lymphomas and Sternberg-reed cells. Furthermore, this antibody was shown to be capable of distinguishing small cell lung cancer from a non small cell lung cancer as a part of a panel of antibodies (Ioachim et al., 1996). Furthermore, LN2 was successfully used in immunohistochemical and flow cytometric analysis of lung cancer tissue and cells (Ioachim et al., 1996). Finally, this antibody is also useful in immunofluorescence analysis of CD74, as it was very effective in labelling this protein in CD74-transfected COS-7 cells (Leng et al., 2003).

**Antibody First Published in:** Epstein et al. Two new monoclonal antibodies (LN-1, LN-2) reactive in B5 formalin-fixed, paraffin-embedded tissues with follicular center and mantle zone human B lymphocytes and derived tumors. J Immunol. 1984 Aug;133(2):1028-36. [PMID:6376628](#)

**Note on publication:** This article describes the LN-2 antibody.

## 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.