

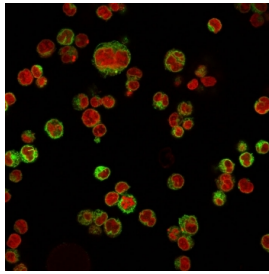
## CD74 Antibody [clone LN-2] (V2077)

Catalog No.	Formulation	Size
V2077-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2077-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2077SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2077IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

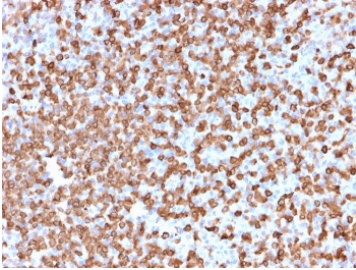
 Citations (6)

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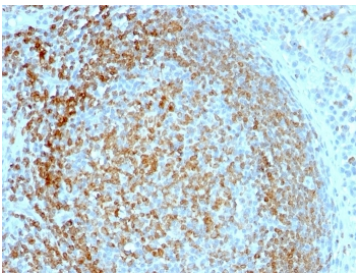
<b>Species Reactivity</b>	Human, Mouse
<b>Format</b>	Purified
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG1, kappa
<b>Clone Name</b>	LN-2
<b>Purity</b>	Protein G affinity chromatography
<b>Buffer</b>	1X PBS, pH 7.4
<b>Gene ID</b>	972
<b>Localization</b>	Cell surface and paranuclear globular
<b>Applications</b>	Flow Cytometry : 1-2ug/10 <sup>6</sup> cells Immunofluorescence (methanol Fixed) : 1-4ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT Western Blot : 2-4ug/ml
<b>Limitations</b>	This <b>CD74 antibody</b> is available for research use only.



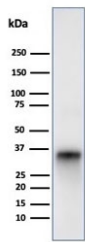
Immunofluorescent staining of human Raji cells with CD74 antibody (clone LN-2, green) and Reddot nuclear stain (red).



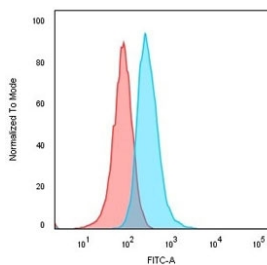
IHC staining of FFPE human spleen tissue with CD74 antibody (clone LN-2). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human tonsil tissue with CD74 antibody (clone LN-2). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



Western blot testing of human Raji cell lysate with CD74 antibody (clone LN-2). Expected molecular weight: 33-43 kDa.



Flow cytometry testing of human Raji cells with CD74 antibody (clone LN-2); Red=isotype control, Blue= CD74 antibody.

## Description

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. CD74 is expressed primarily by antigen presenting cells, such as B-lymphocytes (from before the pre-B cell stage to before the plasma cell stage), macrophages, and monocytes, and many epithelial cells. CD74 antibody stains predominantly germinal center lymphocytes and B-cell lymphomas, but rarely T-cell lymphomas. antibody to CD74 has been shown to be useful in differentiating atypical fibroxanthoma (-) from malignant fibrous histiocytoma (+).

## Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the antibody to be titrated up or down for optimal performance.

1. 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.
2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

## Immunogen

SU-DHL-4 lymphoma cells were used as the immunogen for this CD74 antibody.

## Storage

Store the CD74 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

## Alternate Names

CLIP, DHLAG, Gamma chain of class II antigens, HLA class II histocompatibility antigen gamma chain, HLA-DR antigens-associated invariant chain, HLADR-gamma (HLADG), Ia antigen-associated invariant chain, Ia-gamma, Major histocompatibility complex class II invariant chain, MHC HLA-DR gamma chain, CD74 antibody

## References (2)