

## CD74 (B-Cell Marker) Antibody

Mouse Monoclonal Antibody [Clone LN-2]

| Catalog No     | Format  | Size   |
|----------------|---|--------|
| 972-MSM1-P0    | Purified Ab with BSA and Azide at 200ug/ml    | 20 ug  |
| 972-MSM1-P1    | Purified Ab with BSA and Azide at 200ug/ml    | 100 ug |
| 972-MSM1-P1ABX | Purified Ab WITHOUT BSA and Azide at 1.0mg/ml | 100 ug |

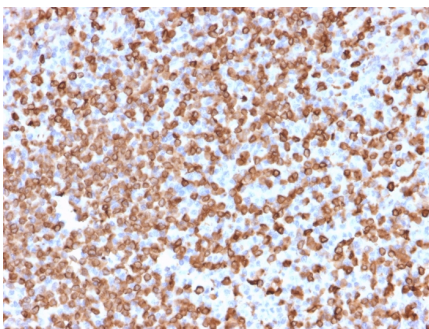
| Applications               | Tested Dillution    | Note  |
|----------------------------|---------------------|---|
| Flow Cytometry (Flow)      | 1-2ug/million cells |   |
| Immunofluorescence (IF)    | 1-3ug/ml            |   |
| Immunohistochemistry (IHC) | 1-2ug/ml            | 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes |
| Western Blot (WB)          | 2-4ug/ml            |   |

### Product Details

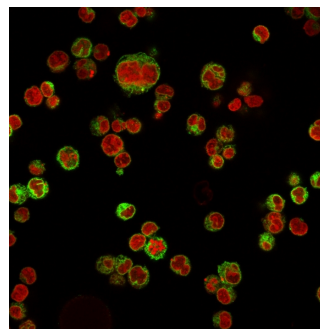
|                               |  |
|-------------------------------|--|
| <b>Clone</b>                  | LN-2   |
| <b>Gene Name</b>              | CD74   |
| <b>Immunogen</b>              | SU-DHL-4 lymphoma cells  |
| <b>Host</b>                   | Mouse  |
| <b>Clonality</b>              | Monoclonal   |
| <b>Isotype / Light Chain</b>  | IgG1 / Kappa   |
| <b>Mol. Weight of Antigen</b> | 33-41kDa   |
| <b>Cellular Localization</b>  | Cell membrane, Endoplasmic reticulum membrane, Endosome, Golgi apparatus, Late endosome, Lysosome, trans-Golgi network |
| <b>Species Reactivity</b>     | Baboon, Human, Mouse   |
| <b>Positive Control</b>       | Daudi or Raji cells. Tonsil or lymph node.   |

\*Optimal dilution for a specific application should be determined.

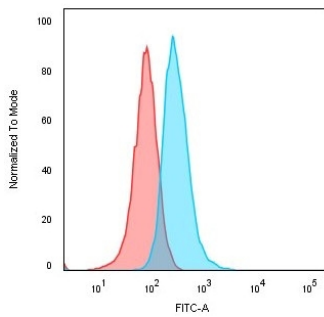
### Product Images for CD74 (B-Cell Marker) Antibody



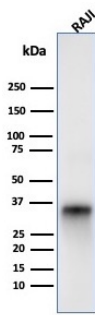
Formalin-fixed, paraffin-embedded human Spleen stained with CD74 Mouse Monoclonal Antibody (LN-2).



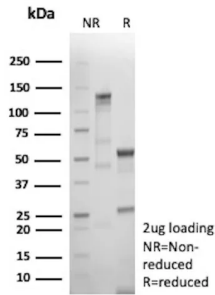
Immunofluorescence Analysis of Raji cells labeling CD74 with CD74 Mouse Monoclonal Antibody (LN-2) followed by Goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Reddot (Red)



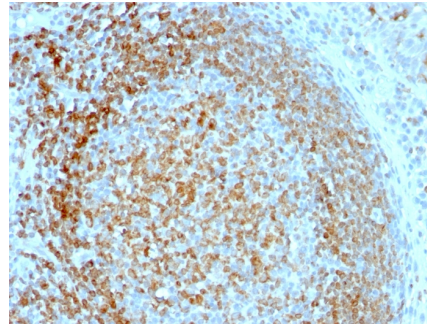
Flow Cytometric Analysis of Human Raji cells using CD74 Mouse Monoclonal Antibody (LN-2) followed by Goat anti-Mouse IgG-CF488 (Blue). Isotype Control (Red).



Western blot analysis of Raji cell lysate using CD74 Mouse Monoclonal Antibody (LN-2).



SDS-PAGE Analysis of Purified CD74 Mouse Monoclonal Antibody (LN-2). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human Tonsil stained with CD74 Mouse Monoclonal Antibody (LN-2).

### Specificity & Comments

It recognizes a protein of ~35kDa, identified as CD74 (Workshop IV). 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. Anti-CD74 stains predominantly germinal center lymphocytes and B-cell lymphomas, but rarely T-cell lymphomas. Anti-CD74 has been shown to be useful in differentiating atypical fibroxanthoma (-) from malignant fibrous histiocytoma (+).

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

### Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

### Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

### Research Areas

B Cell Markers, Cancer, Cardiovascular, Immunology