

**Mouse Anti-CD74 [LN-2]: MC0701, MC0701RTU7**

**Intended Use:** For Research Use Only

**Description:** Cluster of Differentiation 74 (CD74) is a type II transmembrane protein. In normal tissues, CD74 is expressed in B cells, monocytes, macrophages, Langerhans cells, dendritic cells, subsets of activated T cells, and thymic epithelium. Under inflammatory conditions, CD74 expression may be observed in endothelial and certain epithelial cells. CD74 expression has been observed in ~90% of B-cell cancers evaluated, as well as the majority of cell lines derived from these cancers. CD74 is a marker for distinguishing atypical fibroxanthoma from malignant fibrous histiocytoma, and it is also a useful marker for distinguishing leiomyosarcoma from leiomyoma.

**Specifications:**

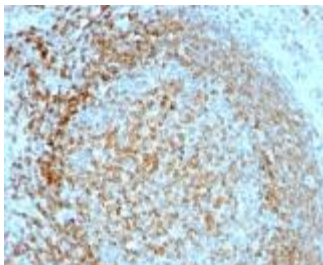
Clone: LN-2  
 Source: Mouse  
 Isotype: IgG1k  
 Reactivity: Human, baboon, mouse  
 Localization: Membrane  
 Formulation: Antibody in PBS pH7.4, containing BSA and  $\leq 0.09\%$  sodium azide (NaN<sub>3</sub>)  
 Storage: Store at 2°- 8°C  
 Applications: IHC, Flow Cyt., IF  
 Package:

Description	Catalog No.	Size
CD74 Concentrated	MC0701	1 ml

**IHC Procedure\*:**

Positive Control Tissue: Tonsil  
 Concentrated Dilution: 50-200  
 Pretreatment: Citrate pH6.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
 Incubation Time and Temp: 30-60 minutes @ RT  
 Detection: Refer to the detection system manual

\* Result should be confirmed by an established diagnostic procedure.



FFPE human tonsil stained with anti-CD74 using DAB

**References:**

1. Influence of surface geometry on the culture of human cell lines: A comparative study using flat, round-bottom and v-shaped 96 well plates. Shafaie S, et al. PLoS One 12:e0186799, 2017.
2. Protocol for Biomarker Ratio Imaging Microscopy with Specific Application to Ductal Carcinoma In situ of the Breast. Clark AJ & Petty HR, Front Cell Dev Biol 4:120, 2016.
3. Identification of lesion subtypes in biopsies of ductal carcinoma in situ of the breast using biomarker ratio imaging microscopy. Clark AJ & Petty HR. Sci Rep 6:27039, 2016.
4. Expression of cluster of differentiation 74 in gallbladder carcinoma and the correlation with epithelial growth factor receptor levels. Wang P, et al. Oncol Lett 11:2061-2066, 2016.

Doc. 100-MC0701  
Rev. A