

CD74 Antibody (clone LN2)

Mouse Monoclonal Antibody Catalog # ALS11979

Specification

CD74 Antibody (clone LN2) - Product Information

Application
Primary Accession
Reactivity
Host
Clonality
Calculated MW
Dilution

HC-P, IP, FC
P04233
Human
Mouse
Mouse
Monoclonal
34kDa KDa
IHC-P~~N/A

CD74 Antibody (clone LN2) - Additional Information

Gene ID 972

Other Names

HLA class II histocompatibility antigen gamma chain, HLA-DR antigens-associated invariant chain, la antigen-associated invariant chain, li, p33, CD74, CD74, DHLAG

FC~~1:10~50

Target/Specificity

SU-DHL-4 lymphoma cells

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions

CD74 Antibody (clone LN2) is for research use only and not for use in diagnostic or therapeutic procedures.

CD74 Antibody (clone LN2) - Protein Information

Name CD74 (<u>HGNC:1697</u>)

Synonyms DHLAG

Function

Plays a critical role in MHC class II antigen processing by stabilizing peptide-free class II alpha/beta heterodimers in a complex soon after their synthesis and directing transport of the complex from the endoplasmic reticulum to the endosomal/lysosomal system where the antigen processing and binding of antigenic peptides to MHC class II takes place. Serves as cell surface receptor for the cytokine MIF. [Isoform p41]: Stabilizes the conformation of mature CTSL by binding to its active site and serving as a chaperone to help maintain a pool of mature enzyme in endocytic compartments and extracellular space of antigen-presenting cells (APCs). Has antiviral activity by



stymieing the endosomal entry of Ebola virus and coronaviruses, including SARS-CoV-2 (PubMed:32855215). Disrupts cathepsin-mediated Ebola virus glycoprotein processing, which prevents viral fusion and entry. This antiviral activity is specific to p41 isoform (PubMed:32855215).

Cellular Location

Cell membrane; Single-pass type II membrane protein. Endoplasmic reticulum membrane. Golgi apparatus, trans-Golgi network. Endosome. Lysosome. Secreted. Note=Transits through a number of intracellular compartments in the endocytic pathway. It can either undergo proteolysis or reach the cell membrane

Tissue Location

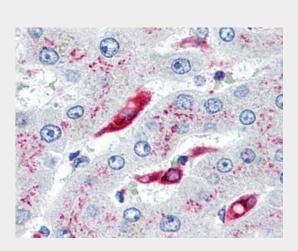
Detected in urine (at protein level). [Isoform p33]: In B cells, represents 70% of total CD74 expression.

CD74 Antibody (clone LN2) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

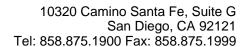
CD74 Antibody (clone LN2) - Images



Anti-CD74 antibody IHC of human liver, Kupffer cells.

CD74 Antibody (clone LN2) - Background

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CD74 Antibody (clone LN2) - References

Claesson L.,et al.Proc. Natl. Acad. Sci. U.S.A. 80:7395-7399(1983). Strubin M.,et al.EMBO J. 3:869-872(1984). Kudo J.,et al.Nucleic Acids Res. 13:8827-8841(1985). O'Sullivan D.M.,et al.Proc. Natl. Acad. Sci. U.S.A. 83:4484-4488(1986). Kalnine N.,et al.Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.