

CD74 Polyclonal Antibody

Catalog # AP73647

Product Information

Application WB, IHC-P
Primary Accession P04233
Reactivity Human
Host Rabbit
Clonality Polyclonal
Calculated MW 33516

Additional Information

Gene ID 972

Other Names CD74; DHLAG; HLA class II histocompatibility antigen gamma chain; HLA-DR

antigens-associated invariant chain; Ia antigen-associated invariant chain; Ii;

p33; CD74

Dilution WB~~Western Blot: 1/500 - 1/2000. IHC-p: 1/100-1/300. ELISA: 1/20000. Not

yet tested in other applications. IHC-P~~Western Blot: 1/500 - 1/2000. IHC-p:

1/100-1/300. ELISA: 1/20000. Not yet tested in other applications.

Format Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium

azide.

Storage Conditions -20°C

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

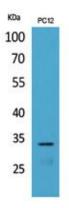
Tissue Location Detected in urine (at protein level). [Isoform p33]: In B cells, represents 70%

of total CD74 expression.

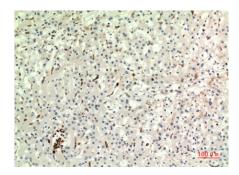
Background

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.

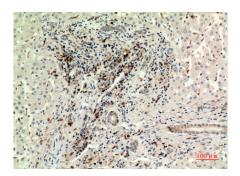
Images



Western Blot analysis of PC12 cells using CD74 Polyclonal Antibody.. Secondary antibody was diluted at 1:20000

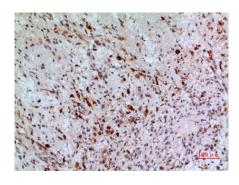


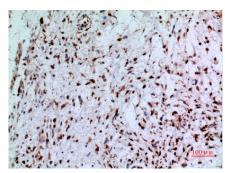
Immunohistochemical analysis of paraffin-embedded human-liver, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded human-liver, antibody was diluted at 1:100

Immunohistochemical analysis of paraffin-embedded human-brain, antibody was diluted at 1:100





Immunohistochemical analysis of paraffin-embedded human-brain, antibody was diluted at 1:100

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