

Anti-CD74 / CLIP Antibody (clone M-B741, Azide-free)
Mouse Anti Human Monoclonal Antibody
Catalog # ALS17843

Specification

Anti-CD74 / CLIP Antibody (clone M-B741, Azide-free) - Product Information

Application	IHC-P, FC
Primary Accession	P04233
Predicted	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Calculated MW	33516

Anti-CD74 / CLIP Antibody (clone M-B741, Azide-free) - Additional Information

Gene ID 972

Alias Symbol **CD74**

Other Names

CD74, CD74 antigen, DHLAG, HLADG, HLA-DR-gamma, Ia-associated invariant chain, p33, MHC HLA-DR gamma chain, Ia-GAMMA

Target/Specificity

CD74 molecule of about 33 kd.

Reconstitution & Storage

Protein A purified

Precautions

Anti-CD74 / CLIP Antibody (clone M-B741, Azide-free) is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-CD74 / CLIP Antibody (clone M-B741, Azide-free) - Protein Information

Name CD74 ([HGNC:1697](#))

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.

Anti-CD74 / CLIP Antibody (clone M-B741, Azide-free) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-CD74 / CLIP Antibody (clone M-B741, Azide-free) - Images