10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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

Mouse Anti Human Monoclonal Antibody
Catalog # ALS17843

Product Information

Application	IHC-P, FC
Primary Accession	P04233
Predicted	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Clone Names	M-B741
Calculated MW	33516
Concentration (mg/ml)	1 mg/ml

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.

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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.