

Anti-CD74 Reference Antibody (milatuzumab)

Recombinant Antibody Catalog # APR10818

Product Information

Application FC, Kinetics, Animal Model

Primary Accession P04233

Reactivity Human, Mouse
Clonality Monoclonal

Isotype IgG1 **Calculated MW** 33516

Additional Information

Target/Specificity CD74

Endotoxin

Conjugation Unconjugated

Expression system CHO Cell

Format Purified monoclonal antibody supplied in PBS, pH6.0, without

preservative. This antibody is purified through a protein A column.

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

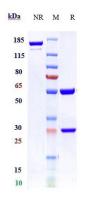
reticulum membrane. Golgi apparatus, trans-Golgi network. Endosome.

Lysosome. Secreted. Note=Transits through a number of intracellular compartments in the endocytic pathway. It can either undergo proteolysis or reach the cell membrane

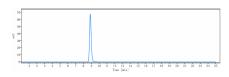
Tissue Location

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

Images



Anti-CD74 Reference Antibody (milatuzumab) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%



The purity of Anti-CD74 Reference Antibody (milatuzumab)is more than 100% ,determined by SEC-HPLC.

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