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Anti-CD74 Reference Antibody (milatuzumab)

Recombinant Antibody
Catalog # APR10818

Specification

Anti-CD74 Reference Antibody (milatuzumab) - Product Information

Application	**FC, E, FTA**
Primary Accession	P04233
Reactivity	**Cynomolgus, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**145.66 KDa**

Anti-CD74 Reference Antibody (milatuzumab) - Additional Information

Target/Specificity
CD74

Endotoxin
< 0.001EU/ μg,determined by LAL method.

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.

Anti-CD74 Reference Antibody (milatuzumab) - 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

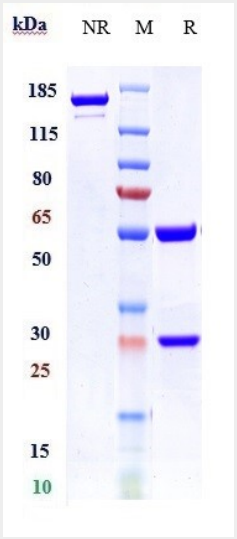
Tissue Location
Detected in urine (at protein level). [Isoform p33]: In B cells, represents 70% of total CD74 expression.

Anti-CD74 Reference Antibody (milatuzumab) - Protocols

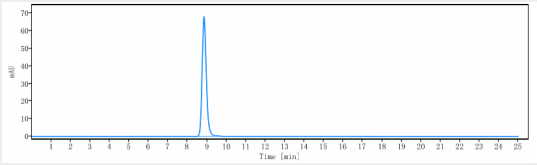
Provided below are standard protocols that you may find useful for product applications.

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

Anti-CD74 Reference Antibody (milatuzumab) - 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%



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