

**Anti-CD74 Reference Antibody (milatuzumab)  
Recombinant Antibody  
Catalog # APR10818****Specification****Anti-CD74 Reference Antibody (milatuzumab) - Product Information**

Application	FC, E, FTA
Primary Accession	<a href="#">P04233</a>
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:<a href="http://www.uniprot.org/citations/32855215" target="\_blank">32855215</a>). Disrupts cathepsin-mediated Ebola virus glycoprotein processing, which prevents viral fusion and

entry. This antiviral activity is specific to p41 isoform (PubMed:<a href="http://www.uniprot.org/citations/32855215" target="\_blank">32855215</a>).

#### 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

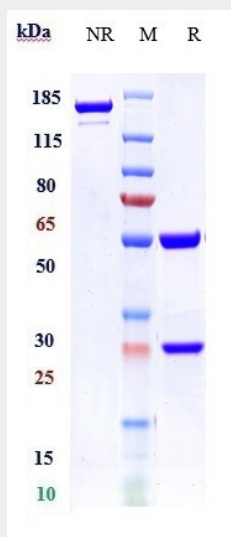
Detected in urine (at protein level). [Isoform p33]: In B cells, represents 70% of total CD74 expression.

### Anti-CD74 Reference Antibody (milatuzumab) - Protocols

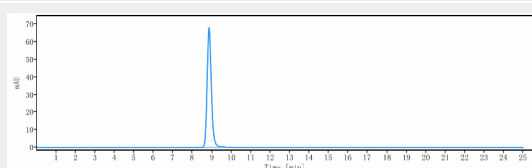
Provided below are standard protocols that you may find useful for product applications.

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



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