

Goat Anti-CD74 Antibody (internal region)
Purified Goat Polyclonal Antibody
Catalog # AF4182a**Specification**

Goat Anti-CD74 Antibody (internal region) - Product Information

Application	WB, E
Primary Accession	P04233
Other Accession	NP_001020330.1 , NP_004346.1
Reactivity	Human
Predicted	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5
Calculated MW	33516

Goat Anti-CD74 Antibody (internal region) - Additional Information**Gene ID** 972**Other Names**

CD74; DHLA; HLA-DG; Ia-GAMMA; CD74 molecule, major histocompatibility complex, class II invariant chain; CD74 antigen; CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated); HLA-DR-gamma; Ia-associated invariant chain; MHC HLA-DR gamma chain; gamma chain of class II antigens

Dilution

WB~~1:1000

E~~N/A

Format

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.

Immunogen

Peptide with sequence C-KGSFPENLRHLKN, from the internal region of the protein sequence according to [NP_001020330.1](#); [NP_004346.1](#).

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-CD74 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-CD74 Antibody (internal region) - 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

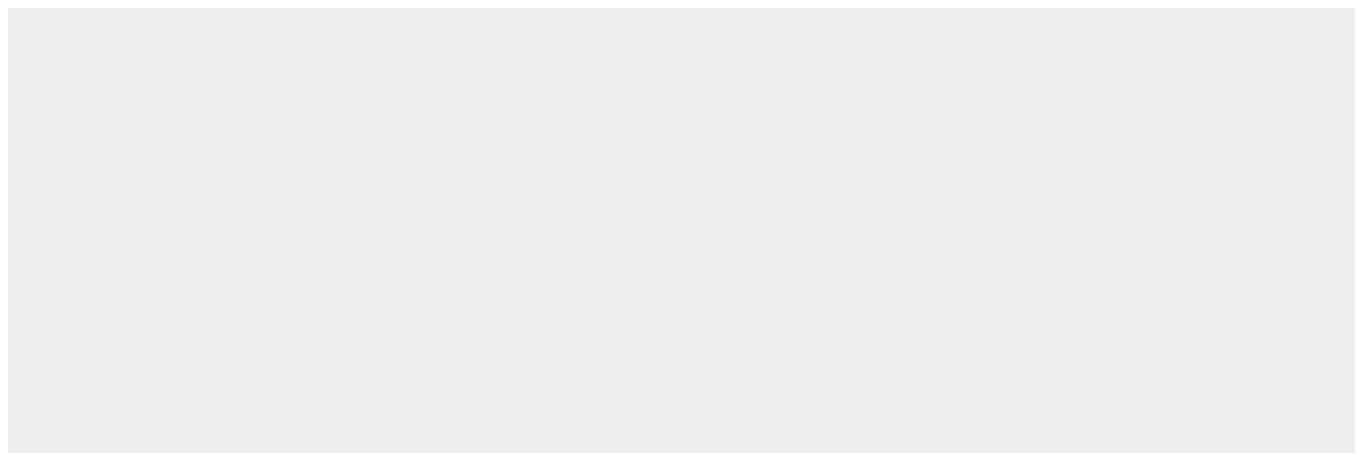
Detected in urine (at protein level). [Isoform p33]: In B cells, represents 70% of total CD74 expression.

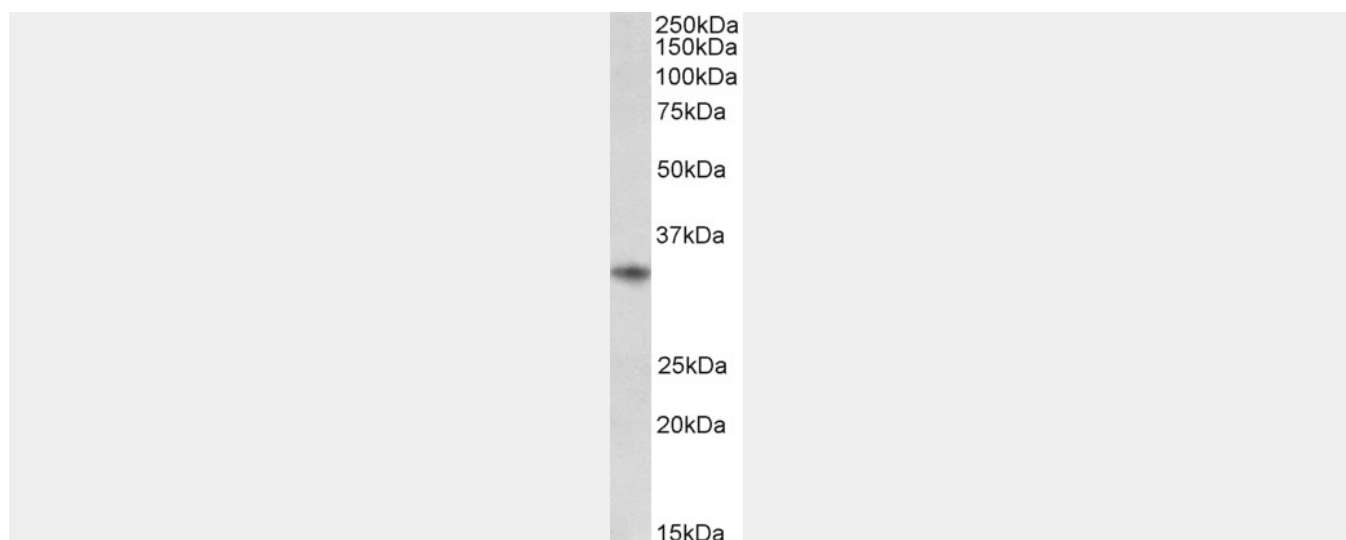
Goat Anti-CD74 Antibody (internal region) - Protocols

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](#)

Goat Anti-CD74 Antibody (internal region) - Images





AF4182a (0.01 $\mu\text{g/ml}$) staining of Human Tonsil lysate (35 μg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-CD74 Antibody (internal region) - References

CD74: a potential novel target for triple-negative breast cancer. Tian B, Zhang Y, Li N, Liu X, Dong J. Tumour biology : the journal of the International Society for Oncodevelopmental Biology and Medicine 2012 Dec 33 (6): 2273-7.