

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

**Specification**

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

Application	WB
Primary Accession	<a href="#">P04233</a>
Other Accession	<a href="#">NP_001020330.1</a> , <a href="#">NP_004346.1</a>
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; DHLAG; HLAG; 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

**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:<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.

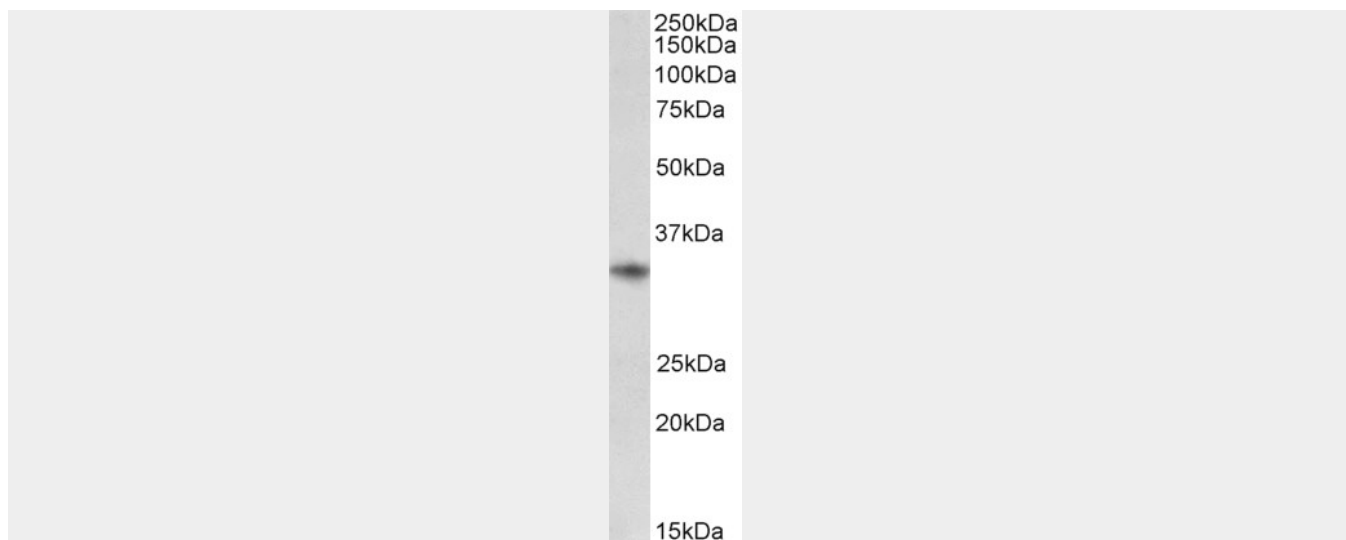
## Goat Anti-CD74 Antibody (internal region) - Protocols

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  $\mu\text{g}$  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.