# Human CD74 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF3590

## DESCRIPTION

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|---|---|
| **Species Reactivity** | Human |
| **Specificity** | Detects human CD74 in direct ELISAs and Western blots. |
| **Source** | Polyclonal Sheep IgG |
| **Purification** | Antigen Affinity-purified |
| **Immunogen** | Chinese hamster ovary cell line CHO-derived recombinant human CD74<br>Gln73-Met232<br>Accession # NP_004346 |
| **Formulation** | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.<br>*Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS. |

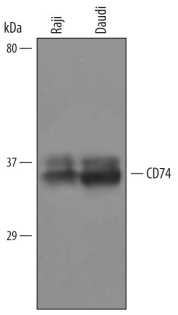
## APPLICATIONS

**Please Note:** *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

| | Recommended Concentration | Sample |
|---|---|---|
| **Western Blot** | 1 µg/mL | See Below |
| **Simple Western** | 10 µg/mL | See Below |

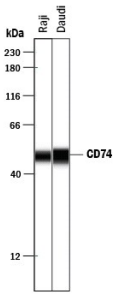
## DATA

### Western Blot




**Detection of Human CD74 by Western Blot.** Western blot shows lysates of Raji human Burkitt's lymphoma cell line and Daudi human Burkitt's lymphoma cell line. PVDF Membrane was probed with 1 µg/mL of Human CD74 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3590) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for CD74 at approximately 35 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

### Simple Western




**Detection of Human CD74 by Simple Western™.** Simple Western lane view shows lysates of Raji human Burkitt's lymphoma cell line and Daudi human Burkitt's lymphoma cell line, loaded at 0.2 mg/mL. Specific bands were detected for CD74 at approximately 49 & 50 kDa (as indicated) using 10 µg/mL of Sheep Anti-Human CD74 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3590) followed by 1:50 dilution of HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

## PREPARATION AND STORAGE

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| **Reconstitution** | Sterile PBS to a final concentration of 0.2 mg/mL. |
| **Shipping** | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.<br>*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| **Stability & Storage** | **Use a manual defrost freezer and avoid repeated freeze-thaw cycles.**<br>● 12 months from date of receipt, -20 to -70 °C as supplied.<br>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.<br>● 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

## BACKGROUND

CD74 is a transmembrane protein which, on antigen presenting cells, is the invariant chain that chaperones MHC class II dimers from the endoplasmic reticulum to the cell surface. The cytoplasmic portion of CD74 can be released by intramembrane cleavage and activate NFκB. CD74 is upregulated in several cancers and is also expressed by non-immune cells during inflammation. This antibody was raised to a splice variant of human CD74 which lacks the Thyroglobulin type-1 repeat in the extracellular domain. Within comparable regions, human CD74 shares 70% and 73% amino acid sequence identity with mouse and rat CD74, respectively.



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