

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human CD24 in direct ELISAs and Western blots.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Chinese hamster ovary cell line CHO-derived recombinant human CD24 Ser27-Gly59 Accession # NP_037362
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

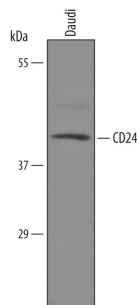
## APPLICATIONS

**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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	1 µg/mL	See Below
<b>Immunohistochemistry</b>	1-15 µg/mL	Immersion fixed paraffin-embedded sections of human colon tissue

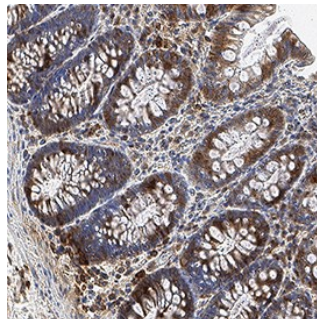
## DATA

### Western Blot



**Detection of Human CD24 by Western Blot.** Western blot shows lysates of Daudi human Burkitt's lymphoma cell line. PVDF Membrane was probed with 1 µg/mL of Sheep Anti-Human CD24 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5247) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for CD24 at approximately 42 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

### Immunohistochemistry



**Detection of CD24 in Human Colon.** CD24 was detected in immersion fixed paraffin-embedded sections of human colon using Sheep Anti-Human CD24 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5247) at 1 µg/ml for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using VisUCyte Antigen Retrieval Reagent-Basic (Catalog # VCTS021). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to the cell surface. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS. For liquid material, refer to CoA for concentration.
<b>Shipping</b>	Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

CD24 (signal transducer 24; also HSA/heat shock antigen) is a variably glycosylated, 35-50 kDa member of the CD24 family of proteins. It is a GPI-linked sialoprotein that is expressed on B cell precursors and unactivated B cells, keratinocytes, and neutrophils and thymocytes. Ligation of CD24 appears to inhibit B cell differentiation, likely through the initiation of apoptosis. Potential CD24 ligands include P-Selectin. The human CD24 precursor is 80 amino acids (aa) in length. It contains a 26 aa signal sequence plus a cleavable C-terminal propeptide (aa 60-80). There is one potential alternate start site at Met5. Over aa 27-59, human CD24 shares only 30% aa identity with mouse CD24.