

## DESCRIPTION

<b>Species Reactivity</b>	Human/Mouse
<b>Specificity</b>	Detects human and mouse CBL in Western blots.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human CBL Asp775-Thr906 Accession # P22681
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.

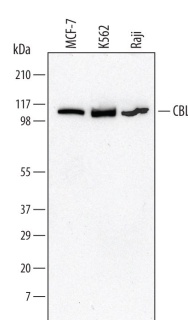
## APPLICATIONS

**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>	0.5 µg/mL	See Below
<b>Simple Western</b>	10 µg/mL	Daudi human Burkitt's lymphoma cells, K562 human chronic myelogenous leukemia cells, Raji human Burkitt's lymphoma cells

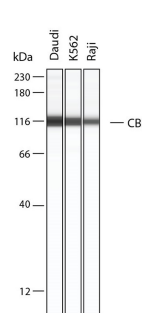
## DATA

### Western Blot



**Detection of Human CBL by Western Blot.** Western blot shows lysates of MCF-7 human breast cancer cell line, K562 human chronic myelogenous leukemia cell line, and Raji human Burkitt's lymphoma cell line. PVDF Membrane was probed with 0.5 µg/mL of Goat Anti-Human/Mouse CBL Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5998) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for CBL at approximately 120 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

### Simple Western



### Detection of Human/Mouse CBL by Simple Western™.

Simple Western lane view shows lysates of Daudi human Burkitt's lymphoma cells, K562 human chronic myelogenous leukemia cells, and Raji human Burkitt's lymphoma cells, loaded at 0.2 mg/mL. A specific band was detected for CBL at approximately 116 kDa (as indicated) using 10 µg/mL of Goat Anti-Human/Mouse CBL Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5998). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<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

CBL (Lake Casitas, California mouse B-lineage Lymphoma; also RING finger protein 55) is a 120-125 kDa cytosolic member of the CBL family of proteins. It is widely expressed, being found in cells such as fibroblasts, adipocytes, osteoclasts, podocytes and mammary epithelium. CBL negatively regulates RTK signaling by acting as an E3 ubiquitin ligase. Following activation via phosphorylation, CBL will interact with multiple signaling molecules such as Src, ZAP-70, EGFR and SHP1. Human CBL is 906 amino acids (aa) in length. It contains an N-terminal phosphoTyr-binding region that consists of one α-helix bundle, an EF hand segment, and an SH2 domain (aa 47-342), a RING finger domain that interacts with E2 enzymes (aa 381-423) a Pro-rich SH3 domain (aa 477-688), and a Leu-zipper/Ubiquitin-associated region (aa 861-892). There is one potential alternative start site at Met55. Over aa 775-906, human CBL shares 91% aa identity with mouse CBL.