

**DESCRIPTION**

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Survivin. This antibody also detects an unidentified ~51 kDa protein band.
<b>Source</b>	Polyclonal Rabbit IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human Survivin aa 1-142
<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.

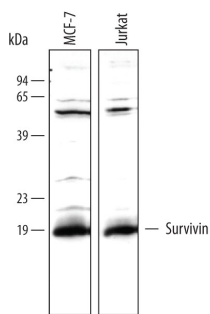
**APPLICATIONS**

**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>	0.5 µg/mL	See Below
<b>Immunohistochemistry</b>	3-15 µg/mL	See Below
<b>Simple Western</b>	5 µg/mL	See Below

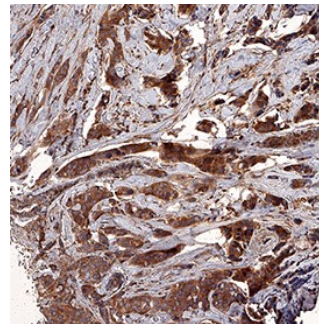
**DATA**

**Western Blot**



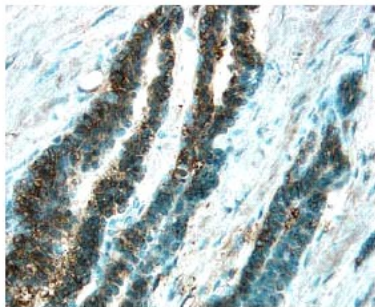
**Detection of Human Survivin by Western Blot.** Western blot shows lysates of MCF-7 human breast cancer cell line and Jurkat human acute T cell leukemia cell line. PVDF membrane was probed with 0.5 µg/mL of Rabbit Anti-Human Survivin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF886) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for Survivin at approximately 19 kDa (as indicated). This experiment was conducted under reducing conditions and using [Immunoblot Buffer Group 4](#).

**Immunohistochemistry**



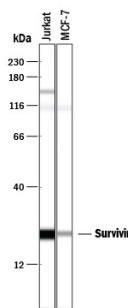
**Survivin in Human Breast Cancer Tissue.** Survivin was detected in immersion fixed paraffin-embedded sections of human breast cancer tissue using Rabbit Anti-Human Survivin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF886) at 3 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Rabbit IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC003). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm. View our protocol for [IHC Staining with VisUCyte HRP Polymer Detection Reagents](#).

**Immunohistochemistry**



**Survivin in Human Prostate Cancer Tissue.** Survivin was detected in immersion fixed paraffin-embedded sections of human prostate cancer tissue using 10 µg/mL Rabbit Anti-Human Survivin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF886) overnight at 4 °C. Before incubation with the primary antibody tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained with the Anti-Rabbit HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS005) and counterstained with hematoxylin (blue). View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

**Simple Western**



**Detection of Human Survivin by Simple Western™.** Simple Western lane view shows lysates of Jurkat human acute T cell leukemia cell line and MCF-7 human breast cancer cell line, loaded at 0.2 mg/mL. A specific band was detected for Survivin at approximately 23 kDa (as indicated) using 5 µg/mL of Rabbit Anti-Human Survivin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF886). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

## PREPARATION AND STORAGE

**Reconstitution** Reconstitute at 0.2 mg/mL in sterile PBS.

**Shipping** 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

**Stability & Storage** Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

## BACKGROUND

Survivin also known as Apoptosis inhibitor survivin and Baculoviral IAP repeat-containing protein 5 (BIRC5) is an 18 kDa member of the inhibitor of apoptosis (IAP) gene family, which encodes negative regulatory proteins that prevent apoptotic cell death. IAP family members usually contain multiple Baculovirus IAP repeat (BIR) domains, but this gene encodes seven isoforms with only a single BIR domain. The encoded proteins also lack a C-terminus RING finger domain. Gene expression is high during fetal development and in most tumors, yet low in adult tissues. Survivin is expressed in a cell cycle-dependent manner and associates with the mitotic apparatus.