

**DESCRIPTION**

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Survivin in direct ELISAs and Western blots.
<b>Source</b>	Recombinant Monoclonal Rabbit IgG Clone # 1277A
<b>Purification</b>	Protein A or G purified from cell culture supernatant
<b>Immunogen</b>	Full length recombinant human Survivin Accession # O15392
<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>Immunocytochemistry</b>	1 µg/mL	See Below
<b>Immunohistochemistry</b>	5-25 µg/mL	See Below
<b>Simple Western</b>	10 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, Jurkat human acute T cell leukemia cell line, HeLa human cervical epithelial carcinoma cell line, 786-O human renal cell adenocarcinoma cell line, and BOWES human melanoma cell line. PVDF membrane was probed with 1 µg/mL of Rabbit Anti-Human Survivin Polyclonal Antibody (Catalog # MAB8861) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for Survivin at approximately 16 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

**Immunocytochemistry**

**Survivin in MCF-7 Human Cell Line.** Survivin was detected in immersion fixed MCF-7 human breast cancer cell line using Rabbit Anti-Human Survivin Polyclonal Antibody (Catalog # MAB8861) at 1 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to nuclei. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

**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 Monoclonal Antibody (Catalog # MAB8861) at 10 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 plasma membrane and cytoplasm. View our protocol for [IHC Staining with VisUCyte HRP Polymer Detection Reagents](#).

**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 HeLa human cervical epithelial carcinoma cell line, loaded at 0.2 mg/mL. A specific band was detected for Survivin at approximately 23 kDa (as indicated) using 10 µg/mL of Rabbit Anti-Human Survivin Monoclonal Antibody (Catalog # MAB8861). This experiment was conducted under reducing conditions and using the 2-40 kDa separation system.

**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 0.5 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>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <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

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.