

## Basic Information

<b>Product Name</b>	Anti-Survivin/BIRC5 Antibody	
<b>Gene Name</b>	BIRC5	
<b>Source</b>	Rabbit	
<b>Isotype</b>	IgG	
<b>Species Reactivity</b>	human, mouse, rat	
<b>Tested Application</b>	WB, IHC, ELISA	
<b>Contents</b>	500 ug/ml antibody with PBS , 0.02% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , 1 mg BSA and 50% glycerol.	
<b>Immunogen</b>	E. coli-derived human Survivin recombinant protein (Position: M1-D142). Human Survivin shares 84.3% and 83% amino acid (aa) sequence identity with mouse and rat Survivin, respectively.	
<b>concentration</b>	500 ug/ml	
<b>Purification</b>	Immunogen affinity purified.	
<b>Observed MW</b>	16-18KD	
<b>Dilution Ratios</b>	Western blot (WB): 1:500-2000 Immunohistochemistry in paraffin section (IHC): 1:50-400 ELISA: 1:100-1000 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

## Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

## Background Information

Survivin, also called baculoviral inhibitor of apoptosis repeat-containing 5 or BIRC5, is a protein that in humans encoded by the BIRC5 gene. It is a member of the inhibitor of apoptosis (IAP) family. The survivin gene contains 4 exons. This gene is mapped to chromosome 17q25 by pulsed field gel electrophoresis and single- and 2-color FISH. The survivin protein functions as inhibitor caspase activation, thereby leading to negative regulation of apoptosis or programmed cell death. And this protein is expressed highly in most human tumours and fetal tissue, but is completely absent in terminally differentiated cells.

## Selected Validation Data

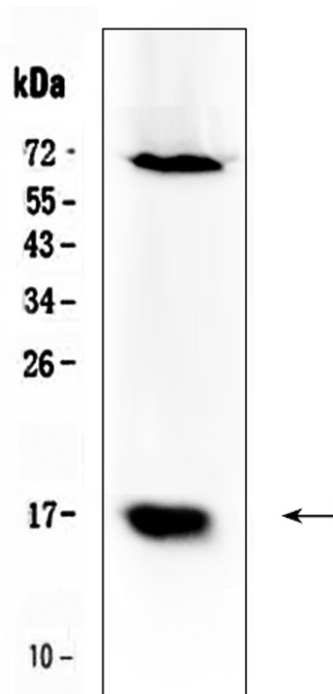


Figure 1. Western blot analysis of Survivin using anti- Survivin antibody (A00379). The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: 293T whole cell lysates. -Survivin antigen affinity purified polyclonal antibody (Catalog # A00379) at 0.5  $\mu$ g/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody . The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) A specific band was detected for Survivin at approximately 16KD. The expected band size for Survivin is at 16KD.

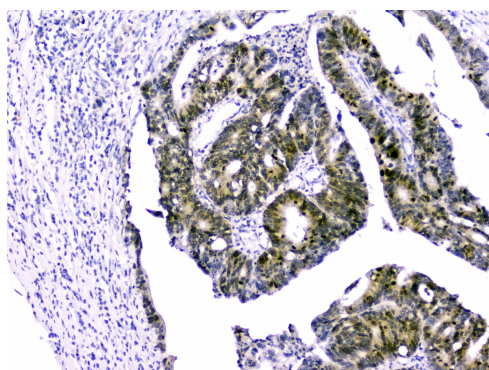


Figure 2. IHC analysis of Survivin using anti-Survivin antibody (A00379).

Survivin was detected in paraffin-embedded section of human intestinal cancer tissues. anti-Survivin Antibody (A00379) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.