

For Research Use Only

# SURVIVIN Polyclonal antibody

Catalog Number: 10508-1-AP

Featured Product

100 Publications



## Basic Information

<b>Catalog Number:</b> 10508-1-AP	<b>GenBank Accession Number:</b> BC008718	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 800 µg/ml by Nanodrop and 400 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 332	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB
<b>Source:</b> Rabbit	<b>Full Name:</b> baculoviral IAP repeat-containing 5	<b>IHC 1:200-1:800</b> <b>IF 1:50-1:500</b>
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 16 kDa	
<b>Immunogen Catalog Number:</b> AG0788	<b>Observed MW:</b> 16-18 kDa	

## Applications

<b>Tested Applications:</b> FC, IF, IHC, IP, WB, ELISA	<b>Positive Controls:</b> WB : HeLa cells, NIH/3T3 cells, PC-3 cells, Jurkat cells, A549 cells
<b>Cited Applications:</b> WB	<b>IP:</b> U2OS cells, Jurkat cells
<b>Species Specificity:</b> human, mouse, rat	<b>IHC:</b> human colon cancer tissue, human breast cancer tissue, human stomach cancer tissue
<b>Cited Species:</b> hamster, human, mouse, rat	<b>IF:</b> MCF-7 cells,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

Survivin, also called BIRC5, is a unique member of the inhibitor of apoptosis (IAP) protein family. Survivin is a 16 kDa anti-apoptotic protein highly expressed during fetal development and cancer cell malignancy, but is completely absent in terminally differentiated cells. The differential expression of survivin in cancer versus normal tissues makes it a useful tool in cancer diagnosis and a promising therapeutic target. Survivin expression is also highly regulated by the cell cycle and is only expressed in the G2-M phase. It is known that survivin localizes to the mitotic spindle by interaction with tubulin during mitosis and may play a contributing role in regulating mitosis. Disruption of survivin-microtubule interactions results in loss of survivin's anti-apoptosis function and increased caspase-3 activity, a mechanism involved in cell death, during mitosis. It also is a direct target gene of the Wnt pathway and is upregulated by beta-catenin.

## Notable Publications

Author	Pubmed ID	Journal	Application
Lei Liu	30273566	Chem Biol Interact	WB
Xiao-Qin Zhu	33456987	J Gastrointest Oncol	IHC
Qian Cheng	28945941	Clin Exp Pharmacol Physiol	WB

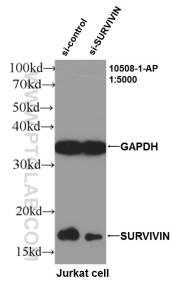
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

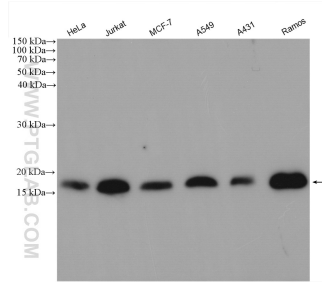
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

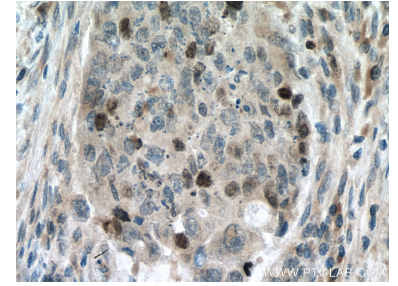
## Selected Validation Data



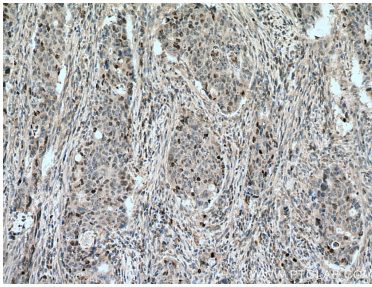
WB result of Survivin antibody (10508-1-AP, 1:5000) with si-control and si-Survivin transfected Jurkat cells..



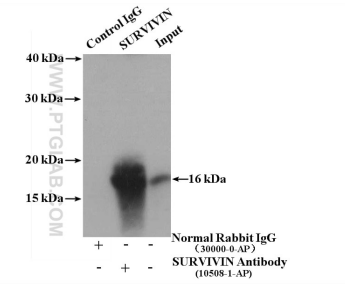
Various lysates were subjected to SDS PAGE followed by western blot with 10508-1-AP (SURVIVIN antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



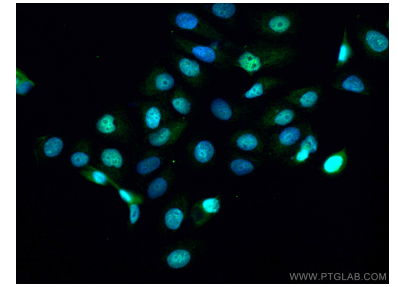
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 10508-1-AP (SURVIVIN antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



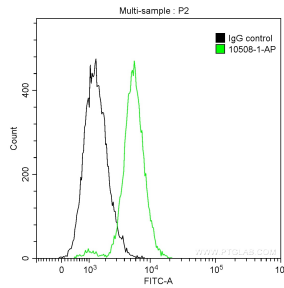
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 10508-1-AP (SURVIVIN antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP Result of anti-SURVIVIN (IP:10508-1-AP, 4ug; Detection:10508-1-AP 1:1000) with U2OS cells lysate 1000ug.



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using SURVIVIN antibody (10508-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10<sup>6</sup> Jurkat cells were intracellularly stained with 0.2 ug Anti-Human SURVIVIN (10508-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (green), and 0.2 ug Control Antibody. Cells were fixed with 90% MeOH.