

For Research Use Only

# SURVIVIN Monoclonal antibody

Catalog Number: 66495-1-Ig

Featured Product

11 Publications



## Basic Information

<b>Catalog Number:</b> 66495-1-Ig	<b>GenBank Accession Number:</b> BC008718	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul, Concentration: 1572 ug/ml by 332 Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 332	<b>CloneNo.:</b> 3B9H7
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> O15392	<b>Recommended Dilutions:</b> WB 1:1000-1:6000 IHC 1:500-1:1000
<b>Isotype:</b> IgG1	<b>Full Name:</b> baculoviral IAP repeat-containing 5	
<b>Immunogen Catalog Number:</b> AG20958	<b>Calculated MW:</b> 16 kDa	
	<b>Observed MW:</b> 18 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b> WB : HEK-293 cells, Raji cells, K-562 cells, HeLa cells, A431 cells, U-937 cells, Jurkat cells
<b>Cited Applications:</b> WB, IF	<b>IHC :</b> human tonsillitis tissue, human skin cancer tissue
<b>Species Specificity:</b> human	
<b>Cited Species:</b> human, mouse, rat	

**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
Jiashu Yang	34737423	Exp Mol Med	WB
Fabiao Hu	35600646	Bioeng Transl Med	WB
Junquan Gu	30566604	Acta Biochim Biophys Sin (Shanghai)	WB,IF

## Storage

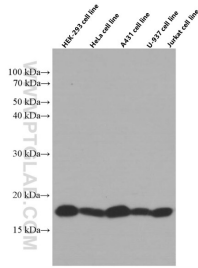
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

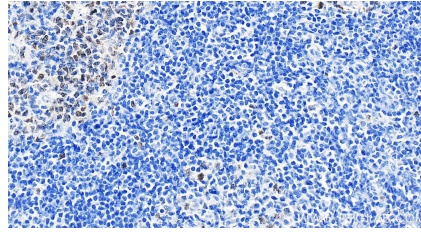
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

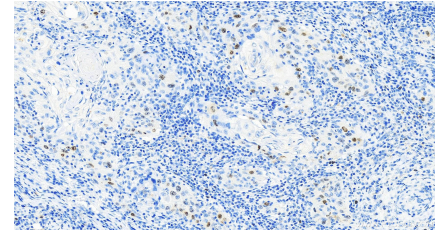
## Selected Validation Data



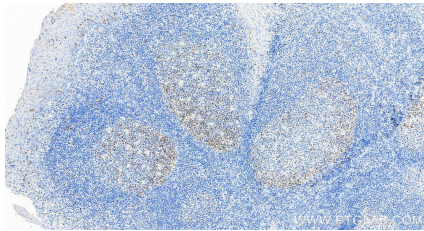
Various lysates were subjected to SDS PAGE followed by western blot with 66495-1-Ig (SURVIVIN antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



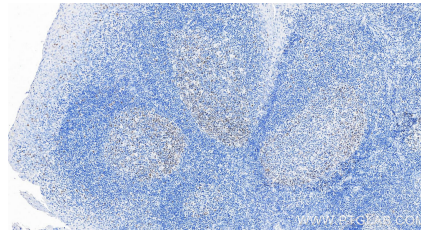
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66495-1-Ig (SURVIVIN antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded skin cancer slide using 66495-1-Ig (SURVIVIN antibody) at dilution of 1:600 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66495-1-Ig (SURVIVIN antibody) at dilution of 1:500 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66495-1-Ig (SURVIVIN antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).