

For Research Use Only

# SURVIVIN Monoclonal antibody

Catalog Number: 66495-1-Ig

Featured Product

8 Publications



## Basic Information

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

## Applications

|  |   |
|--|---|
| <b>Tested Applications:</b><br>FC, WB, ELISA | <b>Positive Controls:</b><br>WB : HEK-293 cells, Raji cells, K-562 cells, HeLa cells, A431 cells, U-937 cells, Jurkat cells |
| <b>Cited Applications:</b><br>WB,IF          |   |
| <b>Species Specificity:</b><br>Human         |   |
| <b>Cited Species:</b><br>human, rat, mouse   |   |

## 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

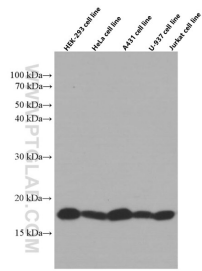
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

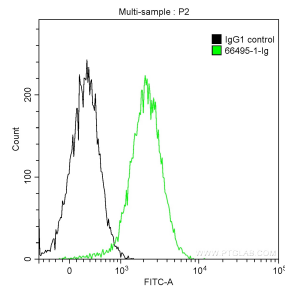
For technical support and original validation data for this product please contact:  
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E: proteintech@ptglab.com  
W: ptglab.com

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## 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.



1X10<sup>6</sup> Jurkat cells were intracellularly stained with 0.5 ug Anti-Human SURVIVIN (66495-1-Ig, Clone:3B9H7) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (green), and 0.5 ug Control Antibody. Cells were fixed with 90% MeOH.