

For Research Use Only

SURVIVIN Polyclonal antibody

Catalog Number: 10508-1-AP

Featured Product

158 Publications



Basic Information

Catalog Number:

10508-1-AP

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0788

GenBank Accession Number:

BC008718

GeneID (NCBI):

332

UNIPROT ID:

O15392

Full Name:

baculoviral IAP repeat-containing 5

Calculated MW:

16 kDa

Observed MW:

16-18 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:500-1:2000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:200-1:800

IF-P: 1:200-1:800

IF/ICC: 1:50-1:500

FC (Intra): 0.40 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, IHC, IF/ICC, IF-P, FC (Intra), IP, ELISA

Cited Applications:

WB, IHC, IF, CoIP

Species Specificity:

human, mouse

Cited Species:

human, mouse, rat, canine, hamster

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

Positive Controls:

WB: HeLa cells, PC-3 cells, Jurkat cells, NIH/3T3 cells, A549 cells, MCF-7 cells, A431 cells, Ramos cells

IP: U2OS cells, Jurkat cells

IHC: human colon cancer tissue, human urothelial carcinoma tissue, human stomach cancer tissue, human breast cancer tissue

IF-P: mouse testis tissue,

IF/ICC: MCF-7 cells,

FC (Intra): Jurkat cells,

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, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

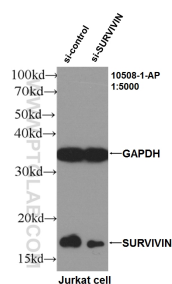
T: 4006900926

E: Proteintech-CN@ptglab.com

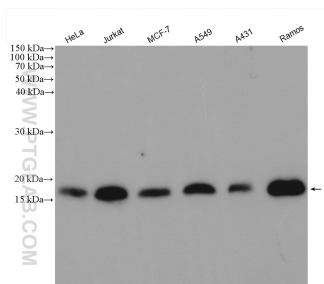
W: ptgcn.com

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

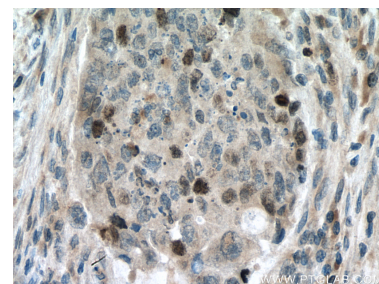
Selected Validation Data



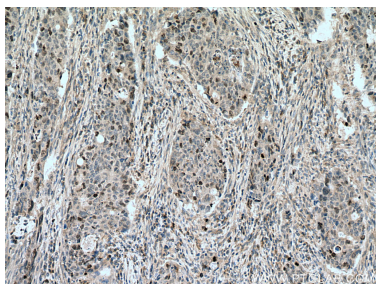
WB result of Survivin antibody (10508-1-AP, 1:5000) with si-control and si-Survivin transfected Jurkat cells..



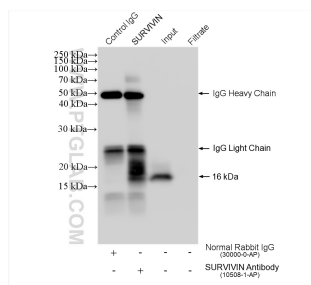
Various lysates were subjected to SDS PAGE followed by western blot with 10508-1-AP (SURVIVIN antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



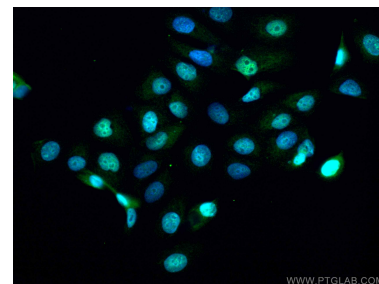
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 10508-1-AP (SURVIVIN antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



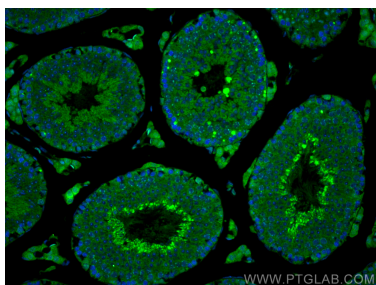
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 10508-1-AP (SURVIVIN antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



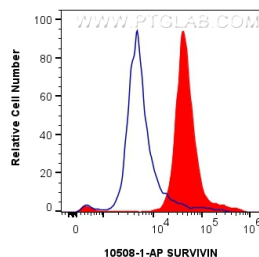
IP result of anti-SURVIVIN (IP:10508-1-AP, 4ug; Detection:10508-1-AP 1:1000) with U2OS cells lysate 440 ug.



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).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse testis tissue using SURVIVIN antibody (10508-1-AP) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1×10^6 Jurkat cells were intracellularly stained with 0.4 ug SURVIVIN Polyclonal antibody (10508-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.4 ug rabbit IgG isotype control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).