

Survivin (ANT0091R) Rabbit mAb

CatalogNo: ANT8167 **Recombinant** 

Formulation: PBS,50%glycerol,0.05%Proclin 300,0.05%BSA
Quantity : 100 ug/vial

Host Species

- Rabbit
- Human,Mouse,Rat,

Reactivity

- WB,IF,IP,ELISA

Applications

MW

- 16kD (Calculated)
 - IgG,Kappa
- 16kD (Observed)

Isotype

Recommended Dilution Ratios

WB 1:1000-1:5000

IF 1:200-1:1000

ELISA 1:5000-1:20000

IP 1:50-1:200,

Storage

Storage* -15°C to -25°C/1 year(Do not lower than -25°C)

Basic Information

Clonality Monoclonal

Clone Number ANT0091R

Immunogen Information

Sequence Baculoviral IAP repeat-containing protein 5

Specificity Endogenous

Target Information

Gene name >>Platinum drug resistance;>>Apoptosis;>>Apoptosis - multiple species;>>Hippo signaling pathway;>>Hepatitis B;>>Pathways in cancer;>>Chemical carcinogenesis receptor activation;>>Colorectal cancer

Protein Name BIRC5

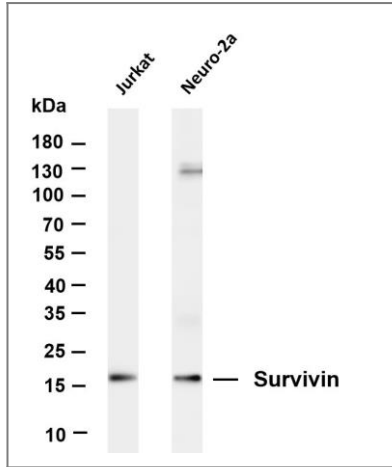
Organism	Gene ID	UniProt ID
Human	332 ;	O15392 ;
Mouse	11799 ;	O70201 ;
Rat	64041 ;	Q9JHY7 ;

Cellular Localization Nucleus

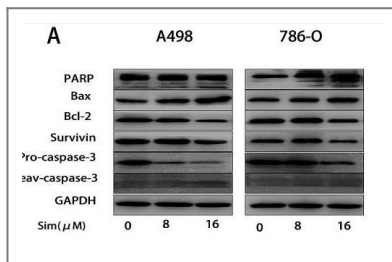
Tissue specificity Expressed only in fetal kidney and liver, and to lesser extent, lung and brain (PubMed:10626797). Abundantly expressed in adenocarcinoma (lung, pancreas, colon, breast, and prostate) and in high-grade lymphomas (PubMed:14741722, PubMed:16329164). Also expressed in various renal cell carcinoma cell lines (PubMed:10626797). Expressed in cochlea including the organ of Corti, the lateral wall, the interdental cells of the Limbus as well as in Schwann cells and cells of the cochlear nerve and the spiral ganglions (at protein level). Not expressed in cells of the inner and outer sulcus or the Reissner's membrane (at protein level) (PubMed:21364656, PubMed:20627126).

Function Domain:The BIR repeat is necessary and sufficient for HBXIP binding.,Function:May play a role in neoplasia. May counteract a default induction of apoptosis in G2/M phase. Interacts with tubulin. Inhibitor of caspase-3 and caspase-7. Component of the chromosomal passenger complex (CPC), a complex that acts as a key regulator of mitosis. The CPC complex has essential functions at the centromere in ensuring correct chromosome alignment and segregation and is required for chromatin-induced microtubule stabilization and spindle assembly. Isoforms 2 and 3 do not appear to play vital roles in mitosis. Isoform 3 shows a marked reduction in its anti-apoptotic effects when compared with the displayed wild-type isoform.,similarity:Belongs to the IAP family.,similarity:Contains 1 BIR repeat.,subcellular location:Localizes on chromosome arms and inner centromeres from prophase through metaphase and then transferring to the spindle midzone and midbody from anaphase through cytokinesis. Colocalizes with AURKB at mitotic chromosomes.,subunit:Homodimer. When phosphorylated, interacts with HBXIP; the resulting complex binds pro-caspase-9, as well as active caspase-9, but much less efficiently. Component of the CPC at least composed of BIRC5/survivin, CDCA8/borealin, INCENP and AURKB/Aurora-B. Interacts with EVI5.,tissue specificity:Expressed only in fetal kidney and liver, and to lesser extent, lung and brain. Abundantly expressed in adenocarcinoma (lung, pancreas, colon, breast, and prostate) and in high-grade lymphomas. Also expressed in various renal cell carcinoma cell lines.,

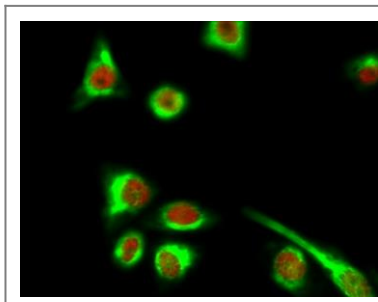
Validation Data



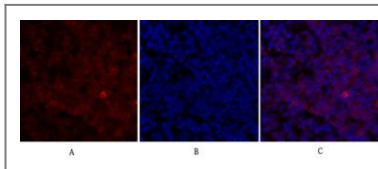
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Survivin (ANT0091R) antibody. The HRPconjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: Jurkat Lane 2: Neuro-2a
Predicted band size: 16kDa
Observed band size: 16kDa



Fang, Zhiqing, et al. "Simvastatin inhibits renal cancer cell growth and metastasis via AKT/mTOR, ERK and JAK2/STAT3 pathway." PloS one 8.5 (2013): e62823.



Immunofluorescence analysis of HeLa cell. 1, Survivin Antibody(red) was diluted at 1:200(4° overnight). Active Caspase-3 Monoclonal Antibody(5E1)(green) was diluted at 1:200(4° overnight). 2, Goat Anti Rabbit Alexa Fluor 594 Catalog:RS3611 was diluted at 1:1000(room temperature, 50min). Goat Anti Mouse Alexa Fluor 488 Catalog:RS3208 was diluted at 1:1000(room temperature, 50min).



Immunofluorescence analysis of mouse-lung tissue. 1, Survivin Antibody(red) was diluted at 1:200(4°C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min). 3, Picture B: DAPI(blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B

For Research use only, not for diagnostics and clinical use
Contact Antagene Inc Tel 1-866-964-2589 Email: info@antageneinc.com