

Survivin Rabbit pAb(C-terminal)

CatalogNo: YT4473

| Key Features

Host Species

- Rabbit

Reactivity

- Human,Mouse,Rat

Applications

- WB,IHC,IF,ELISA

MW

- 20kD (Observed)

Isotype

- IgG

| Storage

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

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

| Recommended Dilution Ratios

WB 1:500-1:2000

IHC 1:100-1:300

IF 1:200-1:1000

ELISA 1:5000

Not yet tested in other applications.

| Basic Information

Clonality Polyclonal

| Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human Survivin. AA range:86-135

Specificity Survivin Polyclonal Antibody detects endogenous levels of Survivin protein.

| Target Information

Gene name BIRC5

Protein Name Baculoviral IAP repeat-containing protein 5

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

Cellular Localization Cytoplasm . Nucleus . Chromosome . Chromosome , centromere . Cytoplasm , cytoskeleton , spindle . Chromosome , centromere , kinetochore . Midbody . Localizes at the centromeres from prophase to metaphase , at the spindle midzone during anaphase and at the midbody during telophase and cytokinesis. Accumulates in the nucleus upon treatment with leptomycin B (LMB) , a XPO1/CRM1 nuclear export inhibitor (By similarity) . Localizes on chromosome arms and inner centromeres from prophase through metaphase. Localizes to kinetochores in metaphase , distributes to the midzone microtubules in anaphase and at telophase , localizes exclusively to the midbody (PubMed:11084331) . Colocalizes with AURKB at mitotic chromosomes (PubMed:14610074) . Acetylation at Lys-129 directs its localization to the nucleus by enhancing homodimerization and thereby inhibiting XPO1/CRM1-mediated nuclear export (PubMed:20826784) . .

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

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pAb(C-terminal)**

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