

## 20-1090: Polyclonal antibody to Survivin

<b>Clonality :</b>	Polyclonal
<b>Application :</b>	IP,IHC,WB
<b>Reactivity :</b>	Rat,Mouse,Human
<b>Gene :</b>	BIRC5
<b>Gene ID :</b>	332
<b>Uniprot ID :</b>	O15392
<b>Format :</b>	Sera
<b>Alternative Name :</b>	Baculoviral IAP repeat-containing protein 5,Apoptosis inhibitor 4, Apoptosis inhibitor survivin
<b>Isotype :</b>	Rabbit IgG
<b>Immunogen Information :</b>	A Full-length recombinant protein of human Survivin was used as immunogen for this antibody

### Description

Survivin is a member of the family of inhibitor of apoptosis proteins (IAP), and is involved in both the control of apoptosis and regulation of cell division. IAPs suppress mitochondria-dependent and -independent apoptosis by binding to and inhibiting caspases through their BIR domains. It is a 142 amino acid protein with an approximate molecular weight of 16.5 kDa. Structurally, survivin is composed of a single BIR domain and an extended COOH-terminal  $\alpha$ -helical coiled-coil domain and is highly expressed in embryonic and fetal organs. Survivin is undetectable in most normal differentiated and non-proliferating tissues, but is highly expressed in majority of human tumor types including lung, breast, colon, gastric, leukemias, neuroblastoma, brain tumors, pheochromocytoma, soft tissue sarcomas, melanomas and other skin tumors. Additionally, survivin expression has also been detected in a variety of preneoplastic or benign lesions, suggesting that re-expression of survivin may occur early during malignant transformation or following a disruption in the balance between cell division and apoptosis.

### Product Info

<b>Amount :</b>	50 $\mu$ l
<b>Content :</b>	50 $\mu$ l sera
<b>Storage condition :</b>	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

### Application Note

WB: 1:1000-1:2000, IHC (paraffin): 1:1000-1:5000, IHC (frozen): Users should optimize, IP: 1:50-1:200

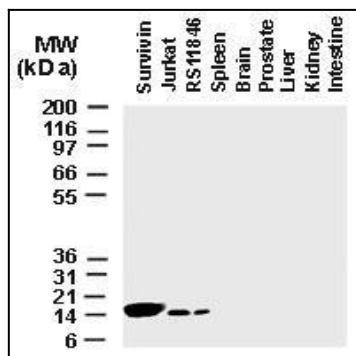


Fig:1 Western blot analysis of Survivin using 20-1090 at 1:2000. Survivin was detected in the two tumor cell lines, Jurkat (T cell lymphoma) and RS11846 (non-Hodgkin's Lymphoma), but not in lysates from normal tissues. Survivin RP, full-length recombinant human survivin protein was used as a positive control.

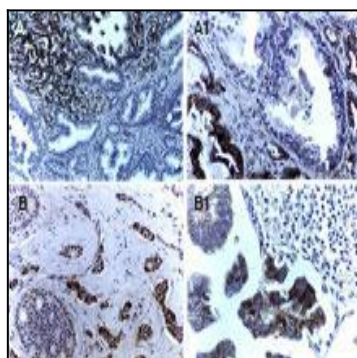


Fig:2 Immunohistochemical analysis of Survivin in formalin-fixed, paraffin-embedded human prostate and breast cancer using 20-1090 at 1:2000. A and A1, prostate cancer at low and high magnification, respectively. B and B1, breast cancer. B1 is a high magnification of an area of metastasis. Hematoxylin-eosin counterstain.

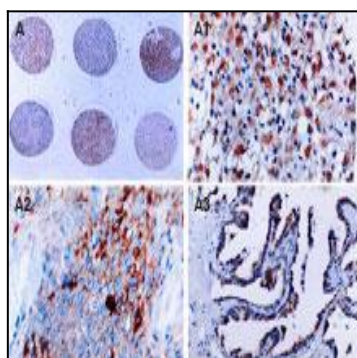


Fig:3 Immunohistochemical analysis of Survivin in a formalin-fixed, paraffin-embedded human brain tissue microarray using 20-1090 at 1:2000. A. Differential expression of Survivin in brain tumors from six different patients. A1-A3, high magnification from A. A1, gemistocytic astrocytoma. A2, medulloblastoma. A3, choroid plexus papilloma. Hematoxylin-eosin counterstain.