

Datasheet for ABIN3042792
anti-Survivin antibody (AA 1-142)



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Overview

Quantity:	100 µg
Target:	Survivin (BIRC5)
Binding Specificity:	AA 1-142
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Survivin antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Purpose:	Anti-survivin/BIRC5 Antibody Picoband®
Immunogen:	E. coli-derived human Survivin recombinant protein (Position: M1-D142).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-survivin/BIRC5 Antibody (ABIN3042792). Tested in ELISA, IHC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	Survivin (BIRC5)
Alternative Name:	BIRC5 (BIRC5 Products)
Background:	Synonyms: Baculoviral IAP repeat-containing protein 5, Apoptosis inhibitor 4, Apoptosis inhibitor survivin, BIRC5, API4, IAP4, 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. . Background: Survivin, also called baculoviral inhibitor of apoptosis repeat-containing 5 or BIRC5, is a protein that, in humans, is encoded by the BIRC5 gene. Survivin is a member of the inhibitor of apoptosis (IAP) family. The survivin gene contains 4 exons. The survivin gene is mapped to chromosome 17q25 by pulsed field gel electrophoresis and single- and 2-color FISH. The survivin protein functions to inhibit caspase activation, thereby leading to negative regulation of apoptosis or programmed cell death. The survivin protein is expressed highly in most human tumours and fetal tissue, but is completely absent in terminally differentiated cells. Sequence Similarities: Belongs to the IAP family.
Molecular Weight:	16 kDa
UniProt:	O15392
Pathways:	Apoptosis , Cell Division Cycle , Nuclear Hormone Receptor Binding

Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL, Human Immunohistochemistry (Paraffin-embedded Section), 2-5 µg/mL, Human ELISA, 0.1-0.5 µg/mL, - 1. Ambrosini, G., Adida, C., Altieri, D. C. A novel anti-apoptosis gene, survivin, expressed in cancer and lymphoma. <i>Nature Med.</i> 3: 917-921, 1997. 2. Chantalat, L., Skoufias, D. A., Kleman, J.-P., Jung, B., Dideberg, O., Margolis, R. L. Crystal structure of human survivin reveals a bow tie-shaped dimer with two unusual alpha-helical extensions. <i>Molec. Cell</i> 6: 183-189, 2000.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

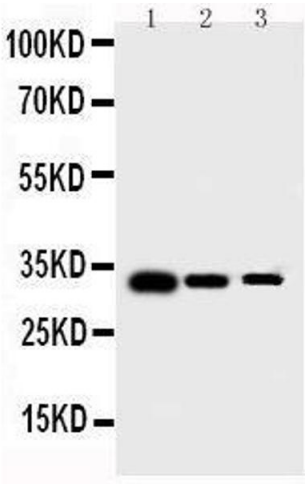
Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na ₂ HPO ₄ .
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C, -20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Publications

- Product cited in:
- Gu, Ren, Wang, Qu, Zhang: "Expression of livin, survivin and caspase-3 in prostatic cancer and their clinical significance." in: **International journal of clinical and experimental pathology**, Vol. 8, Issue 11, pp. 14034-9, (2016) ([PubMed](#)).
- Zhang, Wang, Yang, Pan, Li, Yuan: "Preclinical pharmacodynamic evaluation of antibiotic nitroxoline for anticancer drug repurposing." in: **Oncology letters**, Vol. 11, Issue 5, pp. 3265-3272, (2016) ([PubMed](#)).
- Li, Zhao, Lu, Li, Yang, Wu, Liu: "Notch-1 signaling promotes the malignant features of human breast cancer through NF- κ B activation." in: **PLoS ONE**, Vol. 9, Issue 4, pp. e95912, (2014) ([PubMed](#)).
- Zhang, Lu, Hou, Hu, Wang: "The effects of STAT3 and Survivin silencing on the growth of human bladder carcinoma cells." in: **Tumour biology**, Vol. 35, Issue 6, pp. 5401-7, (2014) ([PubMed](#)).
- Chen, Xie, Zhao, Wang, Bai, Yin, Jiang, Xie, Jia, Huang et al.: "Ampelopsin induces apoptosis by regulating multiple c-Myc/S-phase kinase-associated protein 2/F-box and WD repeat-containing protein 7/histone deacetylase 2 pathways in human lung adenocarcinoma ..." in: **Molecular medicine reports**, Vol. 11, Issue 1, pp. 105-12, (2014) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



Western Blotting

Image 1. Anti-human Survivin antibody, Western blotting
Lane 1: Recombinant Human Survivin Protein 10ng Lane 2:
Recombinant Human Survivin Protein 5ng Lane 3:
Recombinant Human Survivin Protein 2