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Survivin Antibody
Purified Rabbit Polyclonal Antibody
Catalog # ABV11506

Specification

Survivin Antibody - Product Information

Application	**WB**
Primary Accession	O00213
Other Accession	EAW89511
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**77244**

Survivin Antibody - Additional Information

Gene ID 322

Other Names
BIRC5, IAP4 , API4, SVV , EPR-1

Target/Specificity
Survivin/TIAP

Formulation
100 µg (0.5 mg/ml) affinity purified rabbit anti-Survivin polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal.

Handling
The antibody solution should be gently mixed before use.

Background Descriptions

Precautions
Survivin Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Survivin Antibody - Protein Information

Name APBB1 (HGNC:581)

Function
Transcription coregulator that can have both coactivator and corepressor functions (PubMed:15031292, PubMed:18468999, PubMed:18922798, PubMed:25342469, PubMed:<a

href="http://www.uniprot.org/citations/33938178" target="_blank">33938178). Adapter protein that forms a transcriptionally active complex with the gamma-secretase- derived amyloid precursor protein (APP) intracellular domain (PubMed:15031292, PubMed:18468999, PubMed:18922798, PubMed:25342469). Plays a central role in the response to DNA damage by translocating to the nucleus and inducing apoptosis (PubMed:15031292, PubMed:18468999, PubMed:18922798, PubMed:25342469). May act by specifically recognizing and binding histone H2AX phosphorylated on 'Tyr-142' (H2AXY142ph) at double-strand breaks (DSBs), recruiting other pro-apoptosis factors such as MAPK8/JNK1 (PubMed:19234442). Required for histone H4 acetylation at double-strand breaks (DSBs) (PubMed:19234442). Its ability to specifically bind modified histones and chromatin modifying enzymes such as KAT5/TIP60, probably explains its transcription activation activity (PubMed:33938178). Functions in association with TSHZ3, SET and HDAC factors as a transcriptional repressor, that inhibits the expression of CASP4 (PubMed:19343227). Associates with chromatin in a region surrounding the CASP4 transcriptional start site(s) (PubMed:19343227). Involved in hippocampal neurite branching and neuromuscular junction formation, as a result plays a role in spatial memory functioning (By similarity). Plays a role in the maintenance of lens transparency (By similarity). May play a role in muscle cell strength (By similarity). Acts as a molecular adapter that functions in neurite outgrowth by activating the RAC1-ARF6 axis upon insulin treatment (PubMed:36250347).

Cellular Location
Cell membrane. Cytoplasm. Nucleus. Cell projection, growth cone {ECO:0000250|UniProtKB:P46933}. Nucleus speckle. Note=Colocalizes with TSHZ3 in axonal growth cone (By similarity). Colocalizes with TSHZ3 in the nucleus (PubMed:19343227). In normal conditions, it mainly localizes to the cytoplasm, while a small fraction is tethered to the cell membrane via its interaction with APP (PubMed:18468999). Following exposure to DNA damaging agents, it is released from cell membrane and translocates to the nucleus (PubMed:18468999). Nuclear translocation is under the regulation of APP (PubMed:18468999). Colocalizes with NEK6 at the nuclear speckles (PubMed:17512906). Phosphorylation at Ser-610 by SGK1 promotes its localization to the nucleus (By similarity) {ECO:0000250|UniProtKB:P46933, ECO:0000269|PubMed:17512906, ECO:0000269|PubMed:18468999, ECO:0000269|PubMed:19343227}

Tissue Location
Highly expressed in brain; strongly reduced in post-mortem elderly subjects with Alzheimer disease

Survivin Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot

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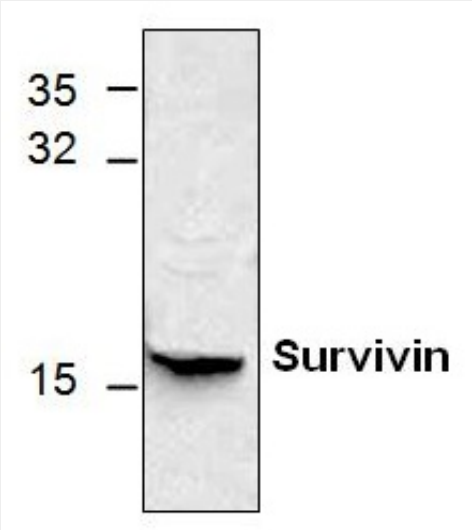
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Survivin Antibody - Images



Western blot analysis of Survivin expression using Jurkat cell lysate.

Survivin Antibody - Background

Survivin is a newly described apoptosis inhibitor that is expressed in many human cancers, but undetectable in terminally differentiated adult tissues. It has been shown that recombinant expression of Survivin counteracts apoptosis of B lymphocyte precursors deprived of interleukin 3 (IL-3), s µggesting a potential role of Survivin in cancer therapy. Survivin is expressed in G2-M phase in a cell cycle-dependent manner and directly associated with mitotic spindle microtubules, s µggesting a role in both apoptosis regulation and cell cycle progression.