

Anti-Survivin Antibody

Catalog # ABO12735

Product Information

Application	WB
Primary Accession	O70201
Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Baculoviral IAP repeat-containing protein 5(BIRC5) detection. Tested with WB in Mouse.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	11799
Other Names	Baculoviral IAP repeat-containing protein 5, Apoptosis inhibitor 4, Apoptosis inhibitor survivin, TIAP, Birc5, Api4, Iap4
Calculated MW	16298
Application Details	Western blot, 0.1-0.5 µg/ml, Mouse
Subcellular Localization	Cytoplasm . Nucleus . Chromosome. Chromosome, centromere . Cytoplasm, cytoskeleton, spindle . Chromosome, centromere, kinetochore . Midbody . 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. Colocalizes with AURKB at mitotic chromosomes. Acetylation at Lys-129 directs its localization to the nucleus by enhancing homodimerization and thereby inhibiting XPO1/CRM1-mediated nuclear export (By similarity). .
Source	Eukaryota
Protein Name	Baculoviral IAP repeat-containing protein 5
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	E.coli-derived mouse Survivin recombinant protein (Position: M1-A140). Mouse Survivin shares 85% and 91% amino acid (aa) sequence identity with human and rat Survivin, respectively.
Purification	Immunogen affinity purified.

Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After r ° Constitution, at 4 °C for one month. It ° Can also be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the IAP family.

Protein Information

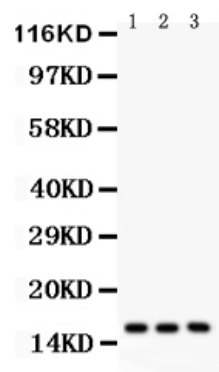
Name	Birc5
Synonyms	Api4, Iap4
Function	Multitasking protein that has dual roles in promoting cell proliferation and preventing apoptosis (PubMed: 25778398). Component of a chromosome passage protein complex (CPC) which is essential for chromosome alignment and segregation during mitosis and cytokinesis (By similarity). Acts as an important regulator of the localization of this complex; directs CPC movement to different locations from the inner centromere during prometaphase to midbody during cytokinesis and participates in the organization of the center spindle by associating with polymerized microtubules (By similarity). Involved in the recruitment of CPC to centromeres during early mitosis via association with histone H3 phosphorylated at 'Thr-3' (H3pT3) during mitosis (By similarity). The complex with RAN plays a role in mitotic spindle formation by serving as a physical scaffold to help deliver the RAN effector molecule TPX2 to microtubules (By similarity). May counteract a default induction of apoptosis in G2/M phase (By similarity). The acetylated form represses STAT3 transactivation of target gene promoters (By similarity). May play a role in neoplasia. Inhibitor of CASP3 and CASP7 (By similarity). Essential for the maintenance of mitochondrial integrity and function (PubMed: 25778398).
Cellular Location	Cytoplasm {ECO:0000250 UniProtKB:O15392}. Nucleus {ECO:0000250 UniProtKB:O15392}. Chromosome {ECO:0000250 UniProtKB:O15392}. Chromosome, centromere {ECO:0000250 UniProtKB:O15392}. Cytoplasm, cytoskeleton, spindle {ECO:0000250 UniProtKB:O15392}. Chromosome, centromere, kinetochore {ECO:0000250 UniProtKB:O15392}. Midbody {ECO:0000250 UniProtKB:O15392} Note=Localizes at the centromeres from prophase to metaphase, at the spindle midzone during anaphase and a 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. Colocalizes with AURKB at mitotic chromosomes. Acetylation at Lys-129 directs its localization to the nucleus by enhancing homodimerization and thereby inhibiting XPO1/CRM1- mediated nuclear export (By similarity). {ECO:0000250 UniProtKB:E3SCZ8, ECO:0000250 UniProtKB:O15392}

Background

Survivin, also called baculoviral inhibitor of apoptosis repeat-containing 5 or BIRC5, is a protein that in humans encoded by the BIRC5 gene. Survivin is a member of the inhibitor of apoptosis (IAP) family. The survivin gene contains 4 exons. This gene is mapped to chromosome 17q25 by pulsed field gel electrophoresis and single- and 2-color FISH. The survivin protein functions as inhibitor 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.

Images



Anti-Survivin antibody, ABO12735, Western blottingAll lanes: Anti Survivin (ABO12735) at 0.5ug/mlLane 1: Mouse Kidney Tissue Lysate at 50ugLane 2: Mouse Liver Tissue Lysate at 50ugLane 3: Mouse Testis Tissue Lysate at 50ugPredicted bind size: 16KDObserved bind size: 16KD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.