10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Survivin
Synthetic Peptide
Catalog # SP2202b

Specification

Survivin - Product Information

Primary Accession	Q5RAH9
Other Accession	O15392
Sequence	**NH2-ELTLGEFLKL-COOH**

Survivin - Additional Information

Gene ID 100172652

Other Names
Baculoviral IAP repeat-containing protein 5, Apoptosis inhibitor survivin, BIRC5

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Survivin - Protein Information

Name BIRC5

Function
Multitasking protein that has dual roles in promoting cell proliferation and preventing apoptosis (By similarity). 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 (By similarity).

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=ocalizes 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}

Survivin - Images