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Datasheet for ABIN5510577

Survivin ELISA Kit

1 Image

Overview

Quantity: 96 tests

Target: Survivin (BIRC5)

Binding Specificity: AA 1-142

Reactivity: Monkey

Method Type: Sandwich ELISA

Application: ELISA

Product Details

Purpose: Sandwich High Sensitivity ELISA kit for Quantitative Detection of monkey primate Survivin

Brand: PicoKine™

Analytical Method: Quantitative

Detection Method: Colorimetric

Specificity: Expression system for standard: E.coli
Immunogen sequence: M1-D142

Cross-Reactivity (Details): There is no detectable cross-reactivity with other relevant proteins.

Characteristics: Sequence similarities: Belongs to the IAP family.
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. .

Target Details

Target: Survivin (BIRC5)

Alternative Name: BIRC5 ([BIRC5 Products](#))

Background: Protein Function: Multitasking protein that has dual roles in promoting cell proliferation and preventing apoptosis. Component of a chromosome passage protein complex (CPC) which is essential for chromosome alignment and segregation during mitosis and cytokinesis. 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. 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. May counteract a default induction of apoptosis in G2/M phase. The acetylated form represses STAT3 transactivation of target gene promoters. May play a role in neoplasia. Inhibitor of CASP3 and CASP7. Isoform 2 and isoform 3 do not appear to play vital roles in mitosis. Isoform 3 shows a marked reduction in its anti-apoptotic effects when compared with the displayed wild-type isoform. .

Background: Survivin(also termed API4) belongs to the family of genes known as inhibitors of apoptosis, and it has been implicated in both prevention of cell death and control of mitosis. Survivin is prominently expressed in transformed cell lines and in all the most common monkey primate cancers of lung, colon, pancreas, prostate and breast in vivo. It is also found in approximately 50 % of high-grade non-Hodgkin's lymphomas. Survivin encodes a deduced 142-amino acid protein and localizes on chromosome 17q25. The overexpression of it in cancer may overcome an apoptotic checkpoint and favour aberrant progression of transformed cells through mitosis. The standard product used in this kit is recombinant monkey primate Survivin with the molecular mass of 34 KDa.

Synonyms: Baculoviral IAP repeat-containing protein 5,Apoptosis inhibitor 4,Apoptosis inhibitor survivin,BIRC5,API4, IAP4,

Full Gene Name: Baculoviral IAP repeat-containing protein 5

Cellular Localisation: 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.

UniProt: [015392](#)

Target Details

Pathways: [Apoptosis](#), [Cell Division Cycle](#), [Nuclear Hormone Receptor Binding](#)

Application Details

Plate: Pre-coated

Restrictions: For Research Use only

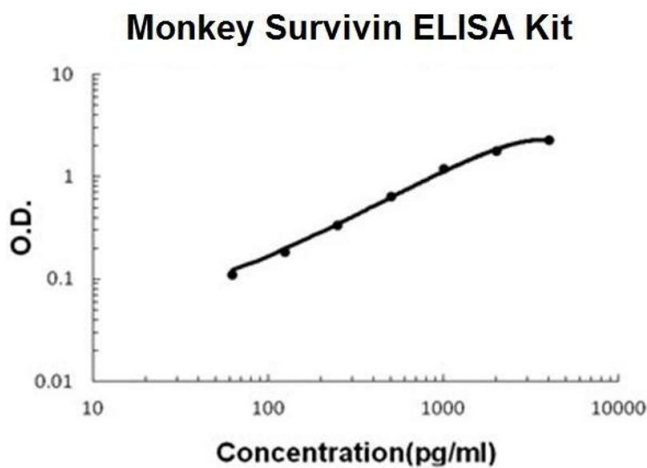
Handling

Storage: 4 °C,-20 °C

Storage Comment: Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles(Shipped with wet ice.)

Expiry Date: 12 months

Images



ELISA

Image 1. Monkey Primate Survivin PicoKine ELISA Kit standard curve