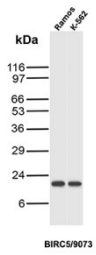
BIRC5 Antibody BIRC5/9073 / Survivin Protein Antibody [clone BIRC5/9073] (V5736)

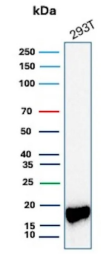
Catalog No.	Formulation	Size
V5736-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5736-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5736SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

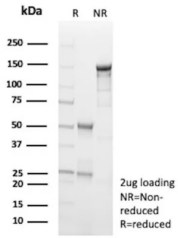
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	BIRC5/9073
Purity	Protein G affinity
UniProt	O15392
Localization	Nucleus, Cytoplasm
Applications	Western blot: 2-4ug/ml
Limitations	This BIRC5 Antibody BIRC5/9073 / Survivin Protein Antibody is available for research use only.



BIRC5 Antibody BIRC5/9073 in Ramos Lymphoma and K-562 Leukemia Cells WB. Western blot testing of human Ramos B-cell lymphoma and K-562 chronic myelogenous leukemia cell lysates with BIRC5 Antibody clone BIRC5/9073 shows a strong, discrete band at approximately 16-17 kDa in both samples. The observed migration is consistent with the expected molecular weight of BIRC5/survivin, supporting specific detection of the target under the tested conditions.



BIRC5 Antibody BIRC5/9073 in 293T Human Embryonic Kidney Cells WB. Western blot testing of human 293T embryonic kidney cell lysate with BIRC5 Antibody clone BIRC5/9073 shows a strong predominant band at approximately 16-17 kDa. The observed migration is consistent with the predicted molecular weight of BIRC5/survivin and demonstrates clean detection of Survivin Protein under the tested conditions.



Purified BIRC5 Antibody BIRC5/9073 SDS-PAGE. SDS-PAGE analysis of 2 ug purified, BSA-free BIRC5 Antibody clone BIRC5/9073 under reduced (R) and non-reduced (NR) conditions demonstrates the integrity of the mouse monoclonal antibody preparation. Under reducing conditions, the expected immunoglobulin heavy-chain band is visible near 50 kDa and the light-chain band near 25 kDa, while the intact non-reduced antibody migrates predominantly near approximately 150 kDa.

Description

BIRC5 Antibody BIRC5/9073 / Survivin Protein Antibody recognizes BIRC5, the gene product commonly known as survivin. BIRC5 belongs to the inhibitor of apoptosis protein (IAP) family and has important functions in the regulation of both programmed cell death and mitosis. Survivin contains a single baculoviral IAP repeat domain and differs structurally from several other IAP family proteins by lacking a C-terminal RING finger domain.

Survivin is an integral component of the chromosomal passenger complex together with Aurora B kinase, INCENP, and borealin/CDCA8. This complex coordinates multiple events during mitosis, including chromosome alignment and segregation, correction of improper kinetochore-microtubule attachments, spindle checkpoint activity, and cytokinesis. Through these functions, BIRC5 contributes to accurate cell division and is closely associated with proliferative activity.

BIRC5 is also involved in mechanisms that promote cell survival and resistance to apoptosis. Survivin can interact with components of apoptotic regulatory pathways, helping cells resist programmed cell death under certain conditions. Its functions are influenced by cell-cycle stage, subcellular localization, and interactions with other regulatory proteins, linking survivin activity to the balance between proliferation and cell death.

Expression of survivin is generally limited in many differentiated adult tissues but is increased during development and in numerous malignancies. Elevated BIRC5 expression has been investigated in solid tumors and hematologic cancers and has been associated with tumor-cell proliferation, apoptosis resistance, disease progression, and therapeutic response. These characteristics have established Survivin Protein as an important research target in cancer biology and biomarker studies.

Alternative splicing of BIRC5 generates multiple survivin isoforms, including survivin-2B and survivin-deltaEx3. Differences among these isoforms have been investigated in relation to protein localization, apoptosis regulation, and tumor biology, adding another level of complexity to BIRC5 function.

NSJ Bioreagents offers clone BIRC5/9073 as a mouse monoclonal reagent for investigating survivin biology. A BIRC5 Antibody can support research into apoptosis regulation, mitotic control, cellular proliferation, cancer biology, and the molecular functions of Survivin Protein.

For a recombinant monoclonal option, see our Survivin Antibody BIRC5/8936R / Apoptosis Inhibitor Survivin Antibody page.

Application Notes

Optimal dilution of the BIRC5 Antibody BIRC5/9073 / Survivin Protein Antibody should be determined by the researcher.

Immunogen

A portion of amino acids 1-142 from human BIRC5 protein was used as the immunogen for the BIRC5 Antibody BIRC5/9073.

Storage

Aliquot the BIRC5 Antibody BIRC5/9073 and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

BIRC5 antibody, Survivin antibody, Survivin protein antibody, Baculoviral IAP repeat-containing protein 5 antibody, API4 antibody, EPR-1 antibody

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