Product Datasheet

Survivin Antibody (60.11) - Unpurified
NB500-205

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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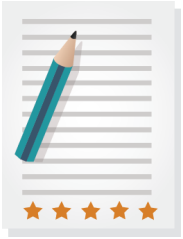


NB500-205

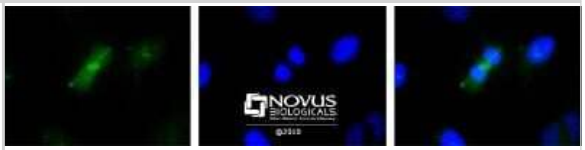
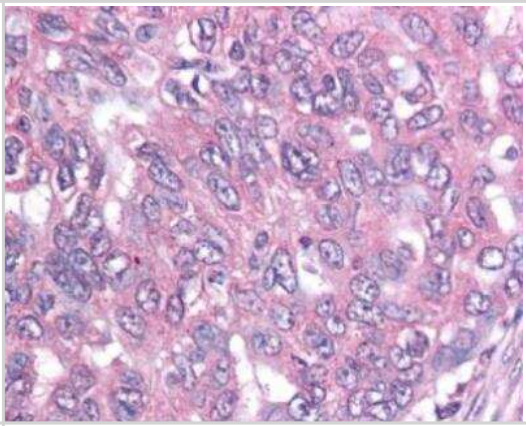
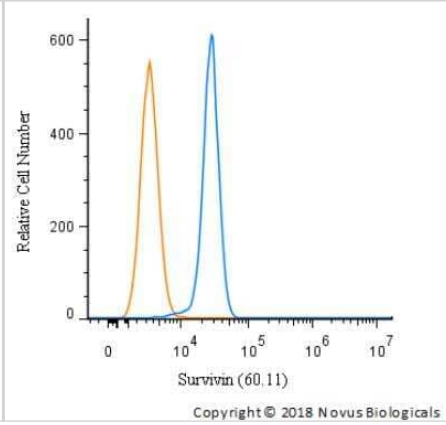
Survivin Antibody (60.11) - Unpurified

Product Information	
Unit Size	0.1 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	60.11
Preservative	0.05% Sodium Azide
Isotype	IgG2a Kappa
Purity	Unpurified
Buffer	Ascites with PBS
Target Molecular Weight	16 kDa

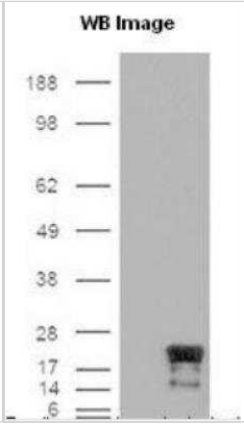
Product Description	
Host	Mouse
Gene ID	332
Gene Symbol	BIRC5
Species	Human, Mouse, Rat
Reactivity Notes	Human reactivity reported in scientific literature (PMID: 30572639)
Specificity/Sensitivity	Survivin Antibody (60.11) [NB500-205] is specific for the cytoplasmic form of survivin.
Immunogen	This Survivin Antibody (60.11) was developed against full length recombinant human Survivin [UniProt# O15392].

Product Application Details	
Applications	Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation, Proximity Ligation Assay, Knockdown Validated
Recommended Dilutions	Western Blot reported in scientific literature (PMID 18332262), Flow Cytometry 1:200, ELISA, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:100, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin reported in scientific literature (PMID 18332262), Immunohistochemistry-Frozen reported in scientific literature (PMID 22841823), Proximity Ligation Assay reported in scientific literature (PMID 28077791), Knockdown Validated
Application Notes	This antibody weakly detects Survivin in Western blot; for this application we suggest using NB500-235 instead. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

Images

Western Blot: Survivin Antibody (60.11) - Unpurified [NB500-205] - Survivin detected in rat aorta smooth muscle cell lysate in western blot analysis using [NB500-205]. Theoretical molecular weight: 16 kDa.	
Immunocytochemistry/Immunofluorescence: Survivin Antibody (60.11) - Unpurified [NB500-205] - HeLa cells stained with Survivin Antibody (60.11) - Unpurified [NB500-205] (Green) and detected with DyLight Fluor 488 conjugated anti-mouse IgG secondary antibody. Nuclei are counterstained with Hoechst 33258 (Blue).	
Immunohistochemistry-Paraffin: Survivin Antibody (60.11) - Unpurified [NB500-205] - Immunohistochemical staining of formalin-fixed paraffin-embedded ovarian cancer tissue using Survivin Antibody (60.11) - Unpurified [NB500-205].	
Flow Cytometry: Survivin Antibody (60.11) - Unpurified [NB500-205] - An intracellular stain was performed on A549 cells with Survivin Antibody (60.11) - Unpurified [NB500-205] and a matched isotype control. Cells were fixed with 4% PFA and then permeablized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 ug/mL for 30 minutes at room temperature, followed by mouse F(ab)2 IgG (H+L) APC-conjugated secondary antibody (F0101B, R&D Systems).	

Western Blot: Survivin Antibody (60.11) - Unpurified [NB500-205] - Cells were transfected with the pCMV6-ENTRY control or pCMV6-ENTRY Survivin cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with [NB500-205]. Note: theoretical molecular weight for Survivin is 16 kDa.



Publications

Breder-Bonk C, Docter D, Barz M et al. The Apoptosis Inhibitor Protein Survivin Is a Critical Cytoprotective Resistor against Silica-Based Nanotoxicity Nanomaterials (Basel, Switzerland) 2023-09-12 [PMID: 37764575] (ICC/IF, IHC, Mouse, Human)

Kim S, Shin M, Lee A et al. Improvement of Inflammation through Antioxidant Pathway of Gardeniae Fructus 50% EtOH Extract (GE) from Acute Reflux Esophagitis Rats Biomed Res Int. [PMID: 32185206]

Ring A, Nguyen C, Smbatyan G et al. CBP/beta-Catenin/FOXM1 Is a Novel Therapeutic Target in Triple Negative Breast Cancer Cancers (Basel). 2018-12-19 [PMID: 30572639] (WB, Human)

Details:
Citation used the Unpurified format of this antibody.

Dheekollu J, Malecka K, Wiedmer A et al. Carcinoma-risk variant of EBNA1 deregulates Epstein-Barr Virus episomal latency Oncotarget 2017-01-31 [PMID: 28077791] (PLA)

Habtemichael N, Wunsch D, Bier C et al. Cloning and functional characterization of the guinea pig apoptosis inhibitor protein Survivin. Gene. [PMID: 20727954]

Details:
Citation using the Unpurified form of this antibody.

Habtemichael N, Heinrich UR, Knauer SK et al. Expression analysis suggests a potential cytoprotective role of Birc5 in the inner ear. Mol Cell Neurosci . [PMID: 20627126]

Details:
Citation using the Unpurified form of this antibody.

Kapinas Kristina, Kim Heesun, Mandeville Matthew et al. microRNA-mediated survivin control of pluripotency. J Cell Physiol. [PMID: 24891298] (Human)

Details:
Citation using the Unpurified form of this antibody.

Hoel AW, Yu P, Nguyen KP, et al. Mitochondrial Heat Shock Protein-90 Modulates Vascular Smooth Muscle Cell Survival and the Vascular Injury Response in Vivo. Am J Pathol. [PMID: 22841823] (WB, IHC-Fr, Human)

Details:
Citation using the Unpurified form of this antibody.

Knauer SK, Heinrich UR, Bier C et al. An otoprotective role for the apoptosis inhibitor protein survivin. Cell Death Dis . [PMID: 21364656]

Details:
Citation using the Unpurified form of this antibody.

de Souza HS, West GA, Rebert N et al. Increased Levels of Survivin, via Association With Heat Shock Protein 90, in Mucosal T Cells From Patients With Crohn's Disease. Gastroenterology. [PMID: 22749932] (Human)

Details:
Citation using the Unpurified form of this antibody.

Ansell, S et al. Inhibition of survivin expression suppresses the growth of aggressive non-Hodgkin's lymphoma. Leukemia. [PMID: 14749704] (WB, Human)

Details:
Citation using the Unpurified form of this antibody.

Koyama S. Differential expression of intracellular apoptotic signaling molecules in tumor and tumor-infiltrating lymphocytes during development of invasion and/or metastasis of gastric carcinoma. Dig Dis Sci48(12):2290-300. 2003-12-01 [PMID: 14714615]

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Procedures

Serum protocol for Survivin Antibody (NB500-205)

Western Blot Procedure

1) HeLa whole cell lysates were heated to 70 degrees C for 10 minutes and then microfuged at room temperature.
2) 65 mg of lysate were electrophoresed (200 V) through a 4-12% NuPAGE Bis-Tris gel, for 1 hr.
3) Proteins were transferred (30 V) onto a nitrocellulose membrane for 40 minutes.
4) The membrane was incubated for 1 hr. at ~ 27 degrees C (RT) in blocking buffer [TBST / 5% nonfat milk].
5) Rinsed the membrane twice in TBS.
6) Incubated the membrane with a dilution of (NB500-205) anti-Survivin antibody, diluted in TBS + 1% BSA, overnight at 4degrees C, gently shaking.
7) Washed the membrane in TBST; 1x15 min., 3x5min.
8) Incubated the membrane with a goat anti-mouse secondary antibody, diluted in TBS + 1% BSA, gently shaking for 35 minutes at room temperature.
9) Washed the membrane in TBST; 1x15 min., 3x5min.
10) Visualized membrane by ECL (AlphaInnotech).
NOTE: HeLa whole cell extracts (NB800-PC1) were used as a positive control for this antibody.

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Products Related to NB500-205

NB800-PC1	HeLa Whole Cell Lysate
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)

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