

Product Datasheet

Survivin [p Ser20] Antibody - BSA Free NB110-92717

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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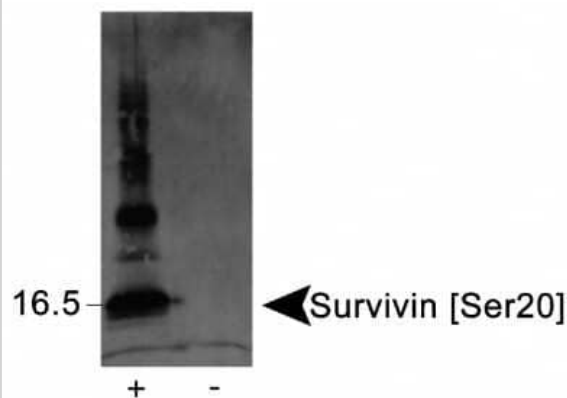
NB110-92717

Survivin [p Ser20] Antibody - BSA Free

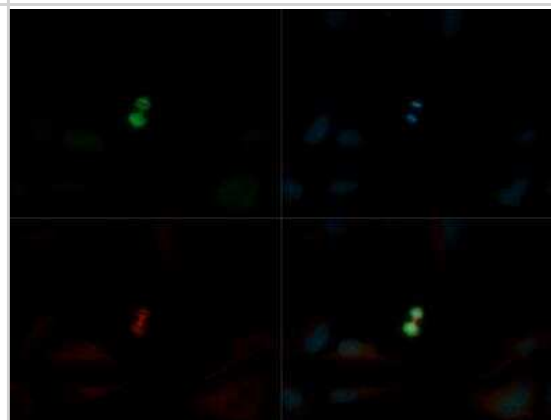
Product Information	
Unit Size	0.1 ml
Concentration	1.25 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS, 30% Glycerol
Target Molecular Weight	16 kDa
Product Description	
Description	Novus Biologicals Rabbit Survivin [p Ser20] Antibody - BSA Free (NB110-92717) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-Survivin Antibody: Cited in 5 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	332
Gene Symbol	BIRC5
Species	Human, Mouse, Rat
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 22814318). Rat reactivity reported in scientific literature (PMID: 17612487). Human reactivity reported in scientific literature (PMID: 24069188).
Immunogen	This Survivin [p Ser20] Antibody was developed against a synthetic peptide surrounding the phosphorylated serine 20 of the human Survivin protein. [Swiss-Prot #O15392]
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot reported in scientific literature (PMID 24069188), Immunohistochemistry 1:10-1:500. Use reported in scientific literature (PMID 22814318), Immunocytochemistry/ Immunofluorescence 1:100
Application Notes	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

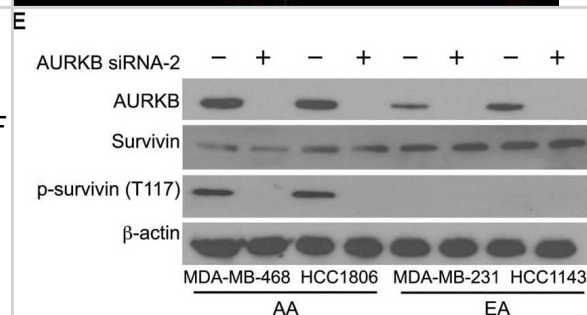
Western Blot: Survivin [p Ser20] Antibody [NB110-92717] - Detection of Survivin [Ser20] in phosphorylated recombinant protein (+), but not in unphosphorylated protein (-) using [NB110-92717]. Band detected at slightly higher than the predicted molecular weight of 16 kDa.



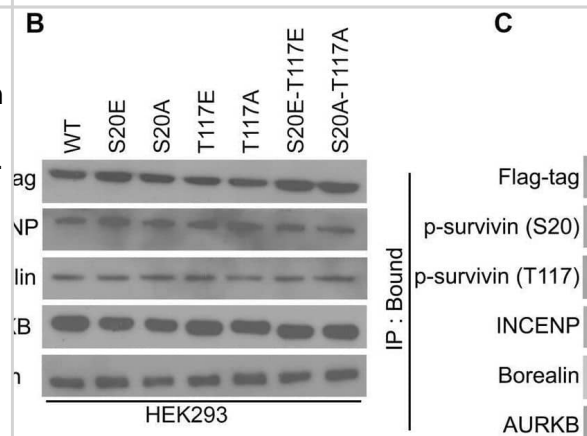
Immunocytochemistry/Immunofluorescence: Survivin [p Ser20] Antibody [NB110-92717] - Survivin [p Ser20] Antibody (NB110-92717) was tested in HeLa cells with DyLight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and DyLight 550 (red).



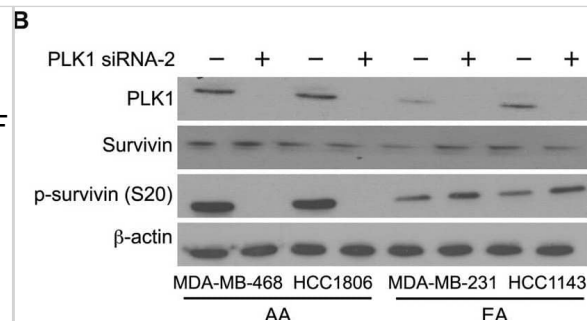
Silencing or inhibition of PLK1 and AURKB modulates survivin phosphorylation at S20 and T117 in AA TNBC cells. A, B Immunoblots showing the levels of PLK1, survivin, p-survivin (S20), and β -actin after PLK1 silencing (A, B) or inhibition (C) in AA and EA TNBC cell lines. D–F Immunoblots showing the levels of AURKB, survivin, p-survivin (T117), and β -actin after AURKB silencing (D, E), or inhibition (F) in AA and EA TNBC cell lines. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/36627281>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



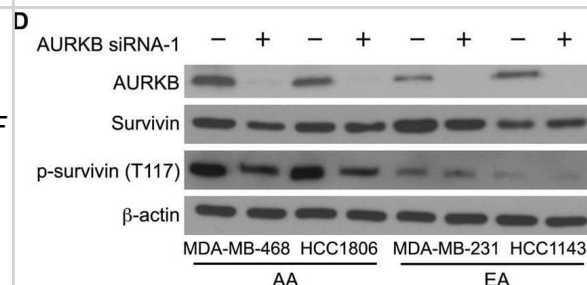
CPC complex formation is highest in S20-T117 double phospho-mimic survivin mutants. A Schematic representation of survivin-mutant plasmids. B–D Immunoblots (B, C) showing the levels of CPC proteins in input (B) and IP-bound (C) samples from cells expressing various survivin-WT and mutant plasmids, and their respective quantification (D). E Bar graphs showing the percentage of cell proliferation in control cells and in cells expressing survivin-WT and mutant plasmids. F Schematic illustration of YM155 treatment schedule in mice bearing tumors and surgically implanted with osmotic pumps. G–J Representative tumor images (G), changes in tumor volume (H), and changes in tumor size (I, J) in mice bearing AA (n = 12) and EA (n = 12) TNBC xenografts. Bars represent mean \pm SEM. Unpaired two-tailed Student's t-test with Welch's correction was used to determine statistical significance (*P < 0.05, **P < 0.005, ns = non-significant). Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/36627281>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



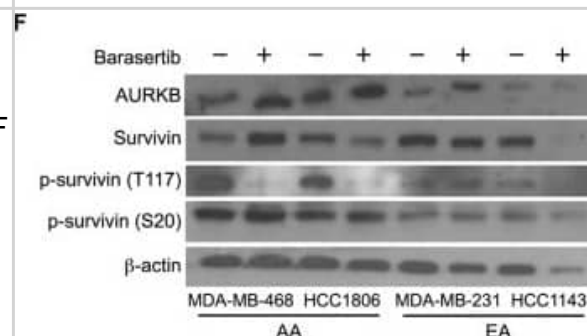
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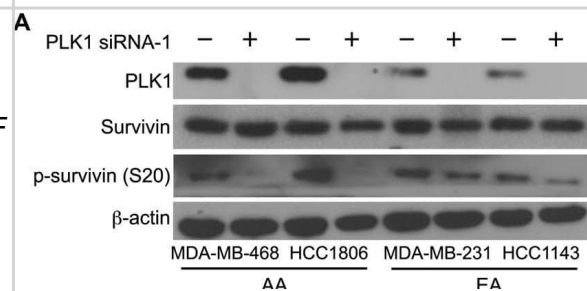
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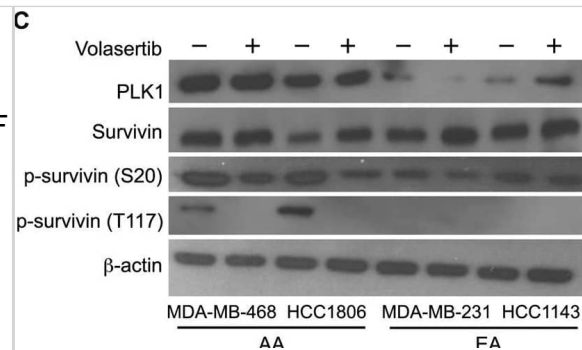
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Publications

Garlapati C, Joshi S, Bhattarai S et al. PLK1 and AURKB phosphorylate survivin differentially to affect proliferation in racially distinct triple-negative breast cancer Cell Death & Disease 2023-01-10 [PMID: 36627281] (Western Blot, Rat)

Benaiges E, Ceperuelo-Mallafre V, Madeira A et al. Survivin drives tumor-associated macrophage reprogramming: a novel mechanism with potential impact for obesity Cellular oncology (Dordrecht) 2021-03-12 [PMID: 33710603]

Knapp Charles F, Sayegh Zena, Schell Michael J et al. Expression of CXCR4, E-cadherin, Bcl-2, and survivin in Merkel cell carcinoma: an immunohistochemical study using a tissue microarray. The American Journal of Dermatopathology 2012-01-01 [PMID: 22814318] (IF/IHC, Mouse)

Muschol-Steinmetz C, Friemel A, Kreis NN et al. Function of Survivin in Trophoblastic Cells of the Placenta. PLoS One. 2013-09-19 [PMID: 24069188] (WB, Human)

Dohi, T et al. Compartmentalized phosphorylation of IAP by protein kinase A regulates cytoprotection. Mol Cell;27 (1):17-28. 2007-07-06 [PMID: 17612487] (WB, Rat)

Procedures

Immunocytochemistry/Immunofluorescence Protocol for Survivin [p Ser20] antibody (NB110-92717)

Survivin [p Ser20] Antibody:

Culture cells to appropriate density in 35 mm culture dishes or 6-well plates.

1. Remove culture medium and add 10% formalin to the dish. Fix at room temperature for 30 minutes.
2. Remove the formalin and add ice cold methanol. Incubate for 5-10 minutes.
3. Remove methanol and add washing solution (i.e. PBS). Be sure to not let the specimen dry out. Wash three times for 10 minutes.
4. To block nonspecific antibody binding incubate in 10% normal goat serum from 1 hour to overnight at room temperature.
5. Add primary antibody at appropriate dilution and incubate at room temperature from 2 hours to overnight at room temperature.
6. Remove primary antibody and replace with washing solution. Wash three times for 10 minutes.
7. Add secondary antibody at appropriate dilution. Incubate for 1 hour at room temperature.
8. Remove antibody and replace with wash solution, then wash for 10 minutes. Add Hoechst 33258 to wash solution at 1:25,000 and incubate for 10 minutes. Wash a third time for 10 minutes.
9. Cells can be viewed directly after washing. The plates can also be stored in PBS containing Azide covered in Parafilm (TM). Cells can also be cover-slipped using Fluoromount, with appropriate sealing.

*The above information is only intended as a guide. The researcher should determine what protocol best meets their needs. Please follow safe laboratory procedures.





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Products Related to NB110-92717

NBL1-07987	Survivin Overexpression Lysate
NB110-92717PEP	Survivin Antibody Blocking Peptide
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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