

Product Datasheet

SG2NA Antibody (S68) NB110-74572

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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NB110-74572

SG2NA Antibody (S68)

Product Information	
Unit Size	0.1 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	S68
Preservative	0.02% Sodium Azide
Isotype	IgG1
Purity	Unpurified
Buffer	Ascites
Target Molecular Weight	90 kDa

Product Description	
Host	Mouse
Gene ID	29966
Gene Symbol	STRN3
Species	Human, Mouse, Rat
Specificity/Sensitivity	This antibody is specific for SG2NA. It does not cross-react with Striatin.
Immunogen	Synthetic peptide made to an internal portion of human SG2NA (within residues 200-300). [Swiss-Prot# Q13033]

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation
Recommended Dilutions	Western Blot 1:250-1:2000, Immunocytochemistry/ Immunofluorescence 1:50-1:100, Immunoprecipitation 1:10-1:500
Application Notes	This SG2NA antibody is useful in Western blot, Immunocytochemistry/Immunofluorescence and Immunoprecipitation. In WB a band can be seen at ~90 kDa. 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.

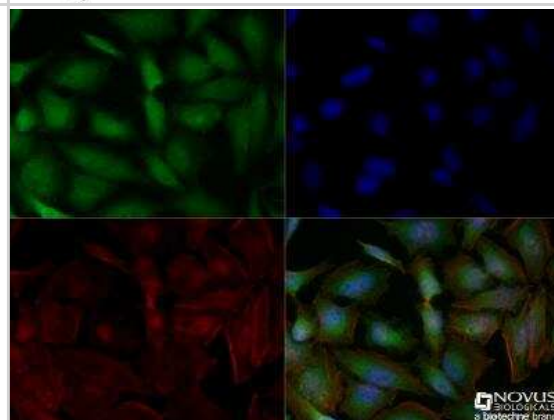


Images

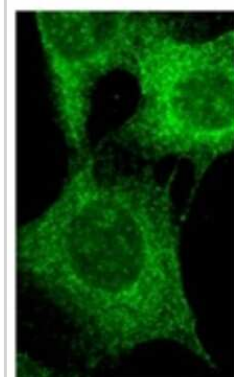
Western Blot: SG2NA Antibody (S68) [NB110-74572] - Detection of SG2NA in NIH3T3 cell lysates using NB110-74572.



Immunocytochemistry/Immunofluorescence: SG2NA Antibody (S68) [NB110-74572] - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton-X100. The cells were incubated with anti-SG2NA (S68) [NB110-74572] at a 1:50 dilution overnight at 4C and detected with an anti-mouse Dylight 488 (Green) at a 1:500 dilution. Actin was detected with Phalloidin 568 (Red) at a 1:200 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



Immunocytochemistry/Immunofluorescence: SG2NA Antibody (S68) [NB110-74572] - Immunofluorescent staining of NIH3T3 cells using NB110-74572.



S68(anti-SG2NA)

Publications

Daniel Frank, Maria Bergamasco, Michael J Mlodzianoski, Andrew Kueh, Ellen Tsui, Cathrine Hall, Georgios Kastrappis, Anne Kathrin Voss, Catriona McLean, Maree Faux, Kelly L Rogers, Bang Tran, Elizabeth Vincan, David Komander, Grant Dewson, Hoanh Tran, Joseph G Gleeson, Sofia J Araújo Trabad patient mutations impede the axonal trafficking of adenomatous polyposis coli to disrupt neurite growth eLife 2023-12-15 [PMID: 38099646]

Bisoyi P, Ratna D, Kumar G et al. In the Rat Midbrain, SG2NA and DJ-1 have Common Interactome, Including Mitochondrial Electron Transporters that are Comodulated Under Oxidative Stress Cellular and molecular neurobiology 2023-05-10 [PMID: 37165139]

Juraszek B, Natcz KA. Protein phosphatase PP2A - a novel interacting partner of carnitine transporter OCTN2 (SLC22A5) in rat astrocytes. J. Neurochem. 2016-08-18 [PMID: 27537937] (ICC/IF, WB)

Tanti GK, Goswami SK. SG2NA recruits DJ-1 and Akt into the mitochondria and membrane to protect cells from oxidative damage. Free Radic. Biol. Med. 2014-07-15 [PMID: 25035075] (ICC/IF, WB, IP, Mouse)

Details:

SG2NA antibody used for WB, IP and ICC-IF. WB performed in several experiments involving NIH3T3 cells, Neuro2A cells and mouse brain. IP performed on Neuro2A cells and Mouse brain. ICC-IF performed on Neuro2A cells - fixed in 3.7% PFA/10% FBS media for 15 min, permeabilized with 0.2% Triton X-100 in 1X PBS for 15 min, primary used at 1:100 dilution with 4C ON incubation. WB and ICC-IF also performed on Neuro2A cells depleted from SG2NA with SG2NA-shRNA constructs.

Tran H, Bustos D, Yeh R et al. HectD1 E3 Ligase Modifies Adenomatous Polyposis Coli (APC) with Polyubiquitin to Promote the APC-Axin Interaction. J Biol Chem 2012-12-31 [PMID: 23277359] (WB, Human)

Yu, XX et al. Methylation of the protein phosphatase 2A catalytic subunit is essential for association of Balph regulatory subunit but not SG2NA, striatin, or polyomavirus middle tumor antigen. Mol Biol Cell;12(1):185-99. 2001-01-01 [PMID: 11160832] (IP)

Moreno, CS et al. A mammalian homolog of yeast MOB1 is both a member and a putative substrate of striatin family-protein phosphatase 2A complexes. J Biol Chem;276(26):24253-60. 2001-06-29 [PMID: 11319234] (IP, ICC/IF, Human, Mouse)

Moreno, CS et al. WD40 repeat proteins striatin and S/G(2) nuclear autoantigen are members of a novel family of calmodulin-binding proteins that associate with protein phosphatase 2A. J Biol Chem;275(8):5257-63. 2000-02-25 [PMID: 10681496] (IP, Human)





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Products Related to NB110-74572

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
H00029966-Q01-10ug	Recombinant Human SG2NA GST (N-Term) Protein

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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