

Product Datasheet

SC35 Antibody (SC-35) NB100-1774

Unit Size: 0.1 ml

Store at -20C. Avoid freeze-thaw cycles.

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NB100-1774

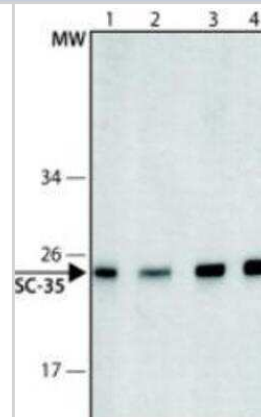
SC35 Antibody (SC-35)

Product Information	
Unit Size	0.1 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	SC-35
Preservative	0.9% Sodium Azide
Isotype	IgG1
Purity	Unpurified
Buffer	Ascites
Product Description	
Host	Mouse
Gene ID	6427
Gene Symbol	SRSF2
Species	Human, Mouse, Rat, Amphibian, Drosophila
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 31600344).
Marker	Nuclear Speckle Marker
Specificity/Sensitivity	Recognizes a phospho-epitope on the non-snRNP (small nuclear ribonucleoprotein particles) factor SC-35. The antibody reacts with the splicing factor SC-35 and with the SC-35-related non-snRNP factor SF2/ASF.
Immunogen	Partially purified mammalian spliceosome.
Product Application Details	
Applications	Western Blot, ELISA, Electron Microscopy, Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation, Immunohistochemistry Free-Floating, Knockout Validated
Recommended Dilutions	Western Blot 1:100-1:2000, ELISA Indirect, Immunocytochemistry/Immunofluorescence 1:2000, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen, Electron Microscopy 1:10 - 1:500, Immunohistochemistry Free-Floating, Knockout Validated
Application Notes	Use in Immunohistochemistry-paraffin reported in scientific literature (PMID: 30015619). This SC35 Antibody (SC-35) is validated for IHC-Fr and IHC-Free Floating from a verified customer review. The antibody labels SC-35 as a speckled pattern in the nucleoplasm, excluding the nucleoli. Other uses include inhibition and depletion of splicing activity in nuclear extracts and immunoaffinity purification. IHC-P: See Nie et al 2002 paper where it appears no antigen retrieval is necessary. Block in normal serum 10% in TBS (pH 7.6) for 30min then incubate antibody overnight at 4C. Use ABC amplification- DAB detection. WB: Detects a doublet of approximately 35 kDa. *Optimal dilutions/concentrations should be determined by the end user.

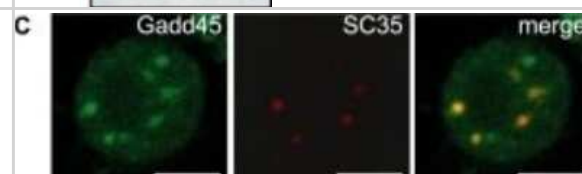


Images

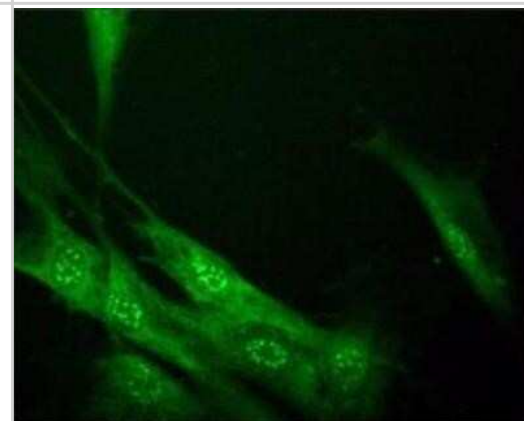
Western Blot: SC35 Antibody (SC-35) [NB100-1774] - SC-35 recombinant protein (3 ug) was separated by SDS-PAGE and probed with Mouse Anti-Splicing Factor SC-35 Clone: SC-35. The antibody was developed using Goat Anti-Mouse IgG-Peroxidase and a chemiluminescent substrate. Lane 1: Antibody dilution 1:100. Lane 2: Antibody dilution 1:250. Lane 3: Antibody dilution 1:500. Lane 4: Antibody dilution 1:1000.



Immunocytochemistry/Immunofluorescence: SC35 Antibody (SC-35) [NB100-1774] - Gadd45a localization in nuclear speckles is RNase sensitive Immunofluorescence confocal microscopy of detergent-extracted RKO cells. Cells were transfected with N-EGFP-Gadd45a and stained with antibodies against SC35 and p68. Image collected and cropped by CiteAb from the following publication (<https://doi.org/10.1371/journal.pone.0014500>) licensed under a CC-BY license.



Immunocytochemistry/Immunofluorescence: SC35 Antibody (SC-35) [NB100-1774] - HS-68 cells were fixed and permeabilized with 4% Paraformaldehyde and 0.5% Triton X-100. Fixed cells were stained with Mouse Anti-Splicing Factor Clone: SC-35 diluted to 1:2,000. The antibody was developed using Goat Anti-Mouse IgG, FITC-conjugate.



Publications

Lehman BJ, Lopez-Diaz FJ, Santisakultarm TP, et al. Dynamic regulation of CTCF stability and sub-nuclear localization in response to stress PLoS genetics 2021-01-01 [PMID: 33411704] (WB, Human)

Malik AM, Miguez RA, Li X et al. Matrin 3-dependent neurotoxicity is modified by nucleic acid binding and nucleocytoplasmic localization Elife. 2018-07-16 [PMID: 30015619] (IHC-P, Rat)

Wu N, Nguyen XN, Wang L et al. The interferon stimulated gene 20 protein (ISG20) is an innate defense antiviral factor that discriminates self versus non-self translation PLoS Pathog. 2019-10-01 [PMID: 31600344] (KO, Mouse, Human)

Grindheim AK, Hollas H, Raddum AM et al. Reactive oxygen species exert opposite effects on Tyr23 phosphorylation of the nuclear and cortical pools of Annexin A2. J. Cell. Sci. 2015-12-07 [PMID: 26644180] (ICC/IF, Rat)

Fu XD Maniatis T. Factor required for mammalian spliceosome assembly is localized to discrete regions in the nucleus. Nature 343:437-41 (1990). [PMID: 2137203]

Nie GY et al. A potential molecular mechanism for regulating pre-mRNA splicing of implantation-related genes through unique uterine expression of splicing factor SC35 in women rhesus monkeys. Reproduction 124:209-17. 2002-01-01 [PMID: 12141933]

Petri et al. Dephosphorylation of survival motor neurons (SMN) by PPM1G/PP2C{gamma} gover. J. Cell Bio. 179:451. 2007-01-01 [PMID: 1833187]

Sytnikova YA, Kubarenko AV, Schafer A et al. Gadd45a is an RNA binding protein and is localized in nuclear speckles. PLoS One;6(1). 2011-01-07 [PMID: 21249130]





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