abcam

Product datasheet

Anti-SC35 antibody [SC-35] - Nuclear Speckle Marker ab11826

★★★★★ 15 Abreviews 130 References 12 图像

概述

产品名称	Anti-SC35抗体[SC-35] -核Speckle Marker
描述	**小鼠单克隆抗体**[SC-35] to SC35 -**核**Speckle Marker
宿主	Mouse
特异性	This antibody recognizes a phospho-epitope of the non-snRNP (small nuclear ribonucleoprotein particles) factor SC35. The antibody reacts with the splicing factor SC-35 and with the SC-35-related non-snRNP factor SF2/ASF. Recent data suggests this clone may cross-react with additional proteins within the spliceosome complex (PMID: 33095160)
经测试应用	**适用于:** ICC/IF **不适用于:** WB
种属反应性	**与反应:** Mouse, Rat, Human **预测可用于:** Xenopus laevis, Drosophila melanogaster, Rhesus monkey, Newt
免疫原	Other Immunogen Type. Fractioned spliceosome complex (PMID: 2137203)
阳性对照	ICC/IF: MCF7, NIH3T3 and Rin-5F cells
常规说明	This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact **orders@abcam.com**. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 93% PBS, 6.97% L-Arginine

纯度	Protein G purified
克隆	单克隆
克隆编号	SC-35
同种型	IgG1

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab11826于以下的经测试应用**

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ICC/IF	★★★★★ (8)	Use a concentration of 5 µg/ml.

应用说明 Is unsuitable for WB.

靶标

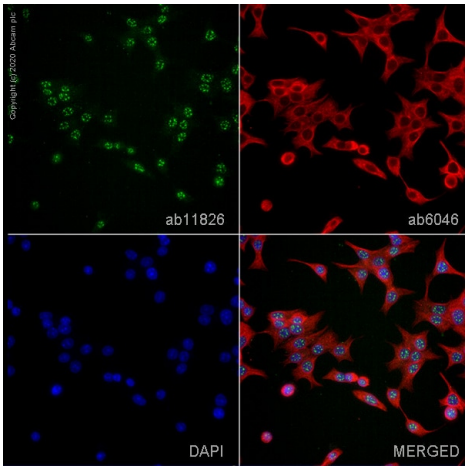
功能 Necessary for the splicing of pre-mRNA. It is required for formation of the earliest ATP-dependent splicing complex and interacts with spliceosomal components bound to both the 5'- and 3'-splice sites during spliceosome assembly. It also is required for ATP-dependent interactions of both U1 and U2 snRNPs with pre-mRNA. Interacts with other spliceosomal components, via the RS domains, to form a bridge between the 5'- and 3'-splice site binding components, U1 snRNP and U2AF. Binds to purine-rich RNA sequences, either 5'-AGSAGAGTA-3' (S=C or G) or 5'-GTTCGAGTA-3'. Can bind to beta-globin mRNA and commit it to the splicing pathway.

序列相似性 Belongs to the splicing factor SR family.
Contains 1 RRM (RNA recognition motif) domain.

翻译后修饰 Extensively phosphorylated on serine residues in the RS domain.

细胞定位 Nucleus.

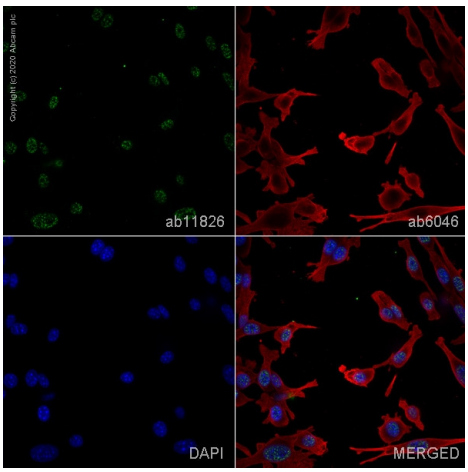
图片



Immunocytochemistry/ Immunofluorescence - Anti-SC35 antibody [SC-35] - Nuclear Speckle Marker (ab11826)

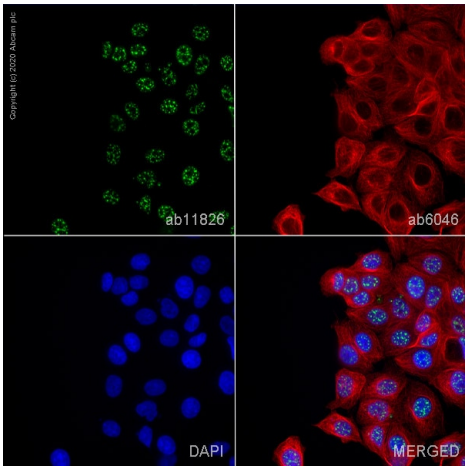
ab11826 staining SC35 - Nuclear Speckle Marker in Rin-5F cells. The cells were fixed with 100% methanol (5 min), permeabilized with 0.1% PBS-Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1h. The cells were then incubated overnight at 4°C with ab11826 at 5µg/ml and **ab6046**, Rabbit polyclonal to beta Tubulin - Loading Control. Cells were then incubated with **ab150117**, Goat polyclonal Secondary Antibody to Mouse IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (shown in green) and **ab150080**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 594) at 1/1000 dilution (shown in pseudocolour red). Nuclear DNA was labelled with DAPI (shown in blue).

Also suitable in cells fixed with 4% paraformaldehyde (10 min).



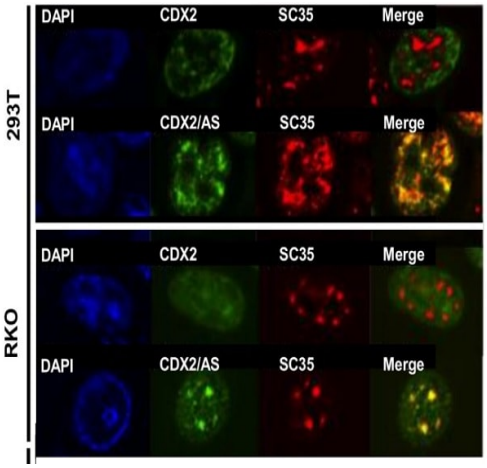
Immunocytochemistry/ Immunofluorescence - Anti-SC35 antibody [SC-35] - Nuclear Speckle Marker (ab11826)

ab11826 staining SC35 - Nuclear Speckle Marker in NIH3T3 cells. The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.1% PBS-Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1h. The cells were then incubated overnight at 4°C with ab11826 at 5µg/ml and **ab6046**, Rabbit polyclonal to beta Tubulin - Loading Control. Cells were then incubated with **ab150117**, Goat polyclonal Secondary Antibody to Mouse IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (shown in green) and **ab150080**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 594) at 1/1000 dilution (shown in pseudocolour red). Nuclear DNA was labelled with DAPI (shown in blue).



Immunocytochemistry/ Immunofluorescence - Anti-SC35 antibody [SC-35] - Nuclear Speckle Marker (ab11826)

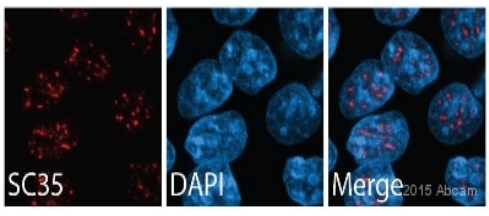
ab11826 staining SC35 - Nuclear Speckled Marker in MCF7 cells. The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.1% PBS-Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1h. The cells were then incubated overnight at 4°C with ab11826 at 5µg/ml and **ab6046**, Rabbit polyclonal to beta Tubulin - Loading Control. Cells were then incubated with **ab150117**, Goat polyclonal Secondary Antibody to Mouse IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (shown in green) and **ab150080**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 594) at 1/1000 dilution (shown in pseudocolour red). Nuclear DNA was labelled with DAPI (shown in blue).



Immunocytochemistry/ Immunofluorescence - Anti-SC35 antibody [SC-35] - Nuclear Speckle Marker (ab11826)

Image from Witek, Matthew E. et al. PLoS ONE 9.8 (2014): e104293. doi: 10.1371/journal.pone.0104293. Fig 5. Reproduced under the Creative Commons license http://creativecommons.org/licenses/by/4.0/

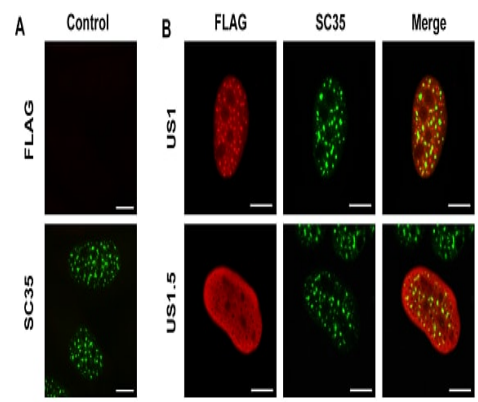
Immunocytochemistry/ Immunofluorescence analysis of HEK-293T and RKO cells transiently transfected with CDX2/AS-His and co-stained for CDX2/AS-His and SC35 (ab11826). All proteins localized to the nucleus and merged images revealed co-localization of CDX2/AS with SC35.



Immunocytochemistry/ Immunofluorescence - Anti-SC35 antibody [SC-35] - Nuclear Speckle Marker (ab11826)

This image is courtesy of an abreview submitted by Dr Sam Nowitzki, Barrow Neurological Institute.

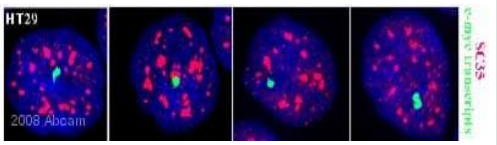
Immunocytochemistry/ Immunofluorescence analysis of HEK-293 human kidney cells labeling SC35 with ab11826 at 1/400 dilution. Cells were fixed with methanol and blocked with PBS for 1 hour at 4°C. Staining with ab11826 was carried out in PBS buffer for 2 hours at 4°C. An undiluted goat anti-mouse Alexa Fluor® 594 secondary antibody was used.



Immunocytochemistry/ Immunofluorescence - Anti-SC35 antibody [SC-35] - Nuclear Speckle Marker (ab11826)

Image from Salsman, Jayme et al. PLoS Pathogens 4.7 (2008): e1000100. doi: 10.1371/journal.ppat.1000100. Fig S4. Reproduced under the Creative Commons license http://creativecommons.org/licenses/by/4.0/

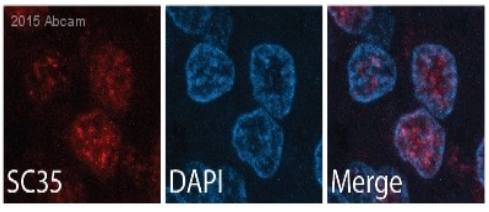
Immunocytochemistry/ Immunofluorescence analysis of untransfected U-2 OS cells (A) and cells transfected with HSV US1 or US1.5 fixed and stained for FLAG (red) and SC35 (green) to identify viral proteins and nuclear speckles respectively. Transfected cells were fixed 40 h post transfection with 3.7% formaldehyde in PBS (20 min), permeabilized with 0.5% Triton X-100 in PBS (10 min), and blocked with 4% BSA in PBS (20 min) prior to incubation with Anti-SC35 antibody [SC-35] - Nuclear Speckle Marker (ab11826) and secondary antibodies in 4% BSA in PBS. DAPI was used for visualization of nuclear DNA. Scale bar = 10 µm.



Immunocytochemistry/ Immunofluorescence - Anti-SC35 antibody [SC-35] - Nuclear Speckle Marker (ab11826)

This image is courtesy of an Abreview submitted by Dr Eva Bartova

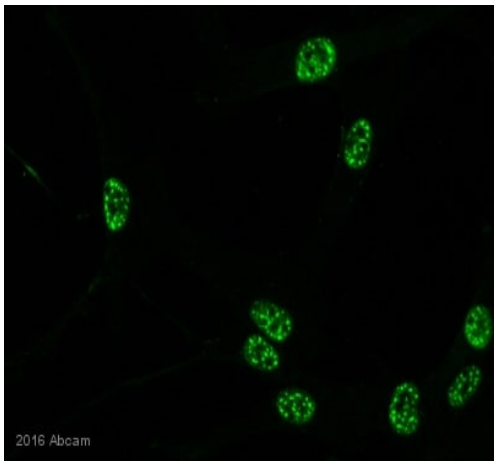
Immunocytochemistry/ Immunofluorescence analysis of human adenocarcinoma HT-29 (Human colorectal adenocarcinoma cell line) cells labeling SC35 with ab11826 at 1/200 dilution. Cells were fixed in paraformaldehyde and permeabilized with Triton X-100 and Saponin. Blocking of the cells was done with 1% BSA for 1 hour at 37°C; staining with ab11826 at 1/200 was carried out for 16 hours at 4°C in PBS buffer. An anti-mouse IgG3 (Alexa Fluor® 594) secondary antibody was used at 1/200 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-SC35 antibody [SC-35] - Nuclear Speckle Marker (ab11826)

This image is courtesy of an abreview submitted by Dr Sam Nowitzki, Barrow Neurological Institute.

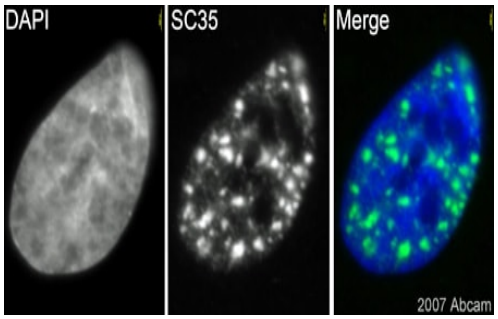
Immunocytochemistry/ Immunofluorescence analysis of human hippocampus cells labeling SC35 with ab11826 at 1/200 dilution. Cells were fixed with formaldehyde and blocked with PBS for 1 hour at 4°C. Staining with ab11826 was carried out in PBS buffer for 12 hours at 4°C. A goat anti-mouse Alexa Fluor® 594 secondary antibody was used at 1/1000 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-SC35 antibody [SC-35] - Nuclear Speckle Marker (ab11826)

This image is courtesy of an anonymous Abreview.

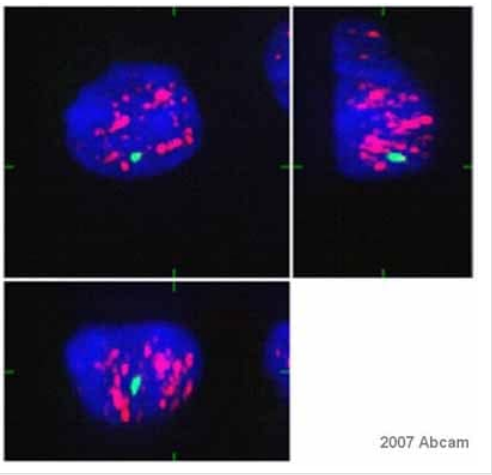
ab11826 staining SC35 in human fibroblast cells by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with paraformaldehyde, permeabilized with 0.3% Triton X-100 in PBS and blocked with 5% Normal Goat Serum/0.3% Triton X-100 in PBS for 60 minutes at 25°C. Samples were incubated with primary antibody (1/500 in 1% BSA/ 0.3% Triton X-100 in PBS) for 16 hours at 4°C. An Alexa Flour® 488 goat anti-mouse IgG (H+L), F(ab')2 Fragment Ig was used as the secondary antibody at a dilution of 1/1000.



Immunocytochemistry/ Immunofluorescence - Anti-SC35 antibody [SC-35] - Nuclear Speckle Marker (ab11826)

This image is courtesy of an Abreview submitted by Dr Kirk McManus

ab11826 (1/1000) staining SC35 (phospho) in human retinal pigment epithelial (RPE) cells (green). Cells were fixed in paraformaldehyde, permeabilized with 0.5% Triton X-100/PBS and counterstained with DAPI in order to highlight the nucleus (blue). Please refer to abreview for further experimental details.

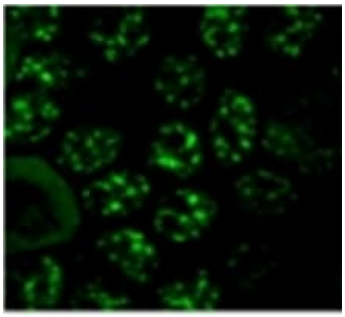


Immunocytochemistry/ Immunofluorescence - Anti-SC35 antibody [SC-35] - Nuclear Speckle Marker (ab11826)

This image is courtesy of an Abreview submitted by Dr Eva Bartova

ab11826 staining cultured human colon adenocarcinoma HT-29 cells.

Cells were PFA fixed and permeabilized in Triton X-100 and saponin prior to blocking with 1% BSA for 1 hour at RT. The primary antibody was diluted 1/200 and incubated with the sample for 16 hours at 4°C. An Alexa Fluor® 594 conjugated goat anti-mouse IgG3 antibody was used as the secondary.



Immunocytochemistry/ Immunofluorescence - Anti-SC35 antibody [SC-35] - Nuclear Speckle Marker (ab11826)

Image from de Chiara C et al, PLoS One. 2009 Dec 23;4(12):e8372, Fig 3.

HeLa (Human epithelial cell line from cervix adenocarcinoma) cells were fixed 24–48 hours after transfection using 4% paraformaldehyde, permeabilized with 0.2% triton X-100/PBS and probed with ab11826 followed by FITC conjugated secondary antibodies (green). After washing with PBS, slides were mounted using Citifluor and analysed by confocal microscopy. Cells were visualized under a Leica laser scanning confocal microscope equipped with a DM-RXE microscope and an argon-krypton laser.

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