Product Datasheet

FUS Antibody (CL0190) - BSA Free
NBP2-52874

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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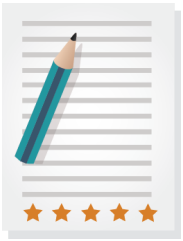


NBP2-52874

FUS Antibody (CL0190) - BSA Free

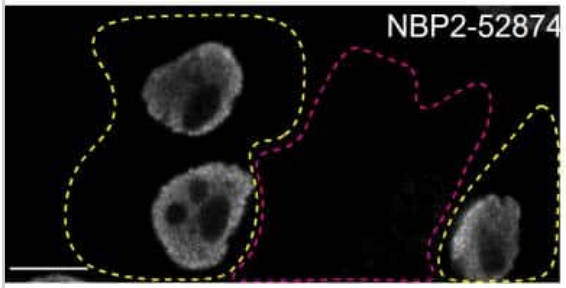
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	CL0190
Preservative	0.02% Sodium Azide
Isotype	IgG1
Purity	Protein A purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description	
Description	Novus Biologicals Knockout (KO) Validated Mouse FUS Antibody (CL0190) - BSA Free (NBP2-52874) is a monoclonal antibody validated for use in IHC, WB and ICC/IF. Anti-FUS Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	2521
Gene Symbol	FUS
Species	Human
Reactivity Notes	Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Mouse-On-Mouse blocking reagent may be needed for IHC and ICC experiments to reduce high background signal. You can find these reagents under catalog numbers PK-2200-NB and MP-2400-NB. Please contact Technical Support if you have any questions
Immunogen	This antibody was developed using a recombinant protein derived from P35637, with the exact immunogen sequence remaining proprietary.

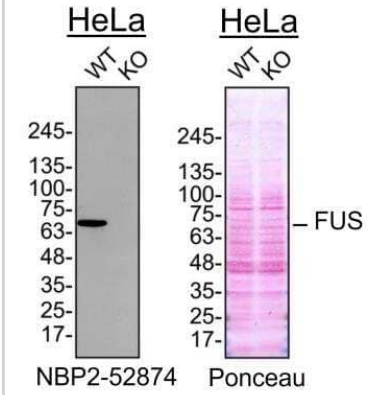
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Knockdown Validated, Knockout Validated
Recommended Dilutions	Western Blot 1 ug/ml, Immunohistochemistry 1:2500 - 1:5000, Immunocytochemistry/ Immunofluorescence 2-10 ug/ml, Immunohistochemistry-Paraffin 1:2500 - 1:5000, Knockout Validated, Knockdown Validated
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

Images

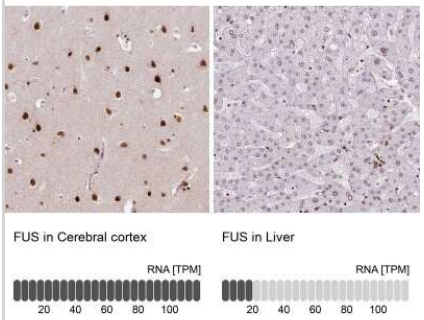
Immunocytochemistry/ Immunofluorescence: FUS Antibody (CL0190) [NBP2-52874] - Immunofluorescence of HeLa wildtype (WT) and FUS knockout (KO) cells labelled with a green or a far-red fluorescent dye, respectively. WT and KO cells were mixed and plated to a 1:1 ratio on coverslips. Cells were stained with Mouse Anti-FUS Monoclonal Antibody (Catalog #NBP2-52874) at 1:1000, followed by the corresponding Alexa Fluor 555-coupled Secondary Antibody. Acquisition of the green (identification of WT cells), red (antibody staining) and far-red (identification of KO cells) channels was performed. Representative image of the red (grayscale) channel is shown. WT and KO cells are outlined with yellow and magenta dashed line, respectively. Image, protocol and testing courtesy of YCharOS Inc. (ycharos.com).



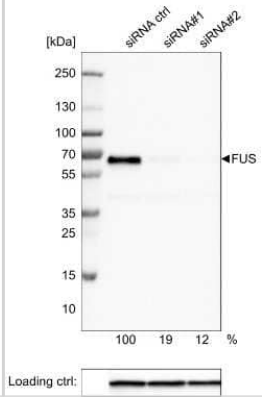
Western Blot: FUS Antibody (CL0190) [NBP2-52874] - Western blot using lysates of HeLa parental cell line (WT) and FUS knockout HeLa cell line (KO), collected in RIPA Buffer. Lysates were prepared using 30 ug of protein and the nitrocellulose membrane was probed with Mouse Anti-FUS Monoclonal Antibody (Catalog #NBP2-52874) at 1:5000 O/N at 4C, followed by peroxidase-conjugated Anti-Mouse Secondary Antibody and ECL detection. A specific band at ~70 kDa was detected in the FUS WT cell line but is not observed in the FUS KO cell line. The Ponceau stained transfer of the blot is shown to confirm equal protein loading. Image, protocol, and testing courtesy of YCharOS Inc. (ycharos.com).



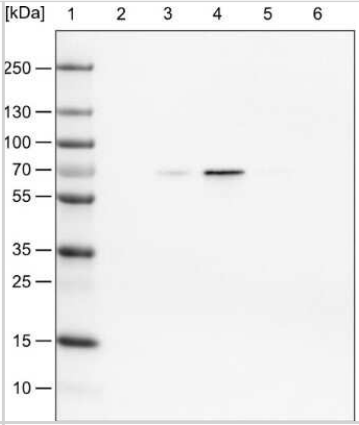
Immunohistochemistry-Paraffin: FUS Antibody (CL0190) [NBP2-52874] - Staining in human cerebral cortex and liver tissues. Corresponding FUS RNA-seq data are presented for the same tissues.



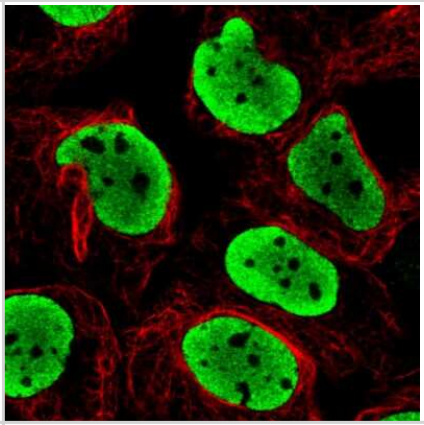
Knockdown Validated: FUS Antibody (CL0190) [NBP2-52874] - Analysis of extracts from U-251 cells, transfected with: control siRNA, target specific siRNA probe #1, target specific siRNA probe #2, using Anti-FUS monoclonal antibody. Downregulation of antibody signal confirms target specificity. Remaining intensity is presented. Loading control: Anti-GAPDH.



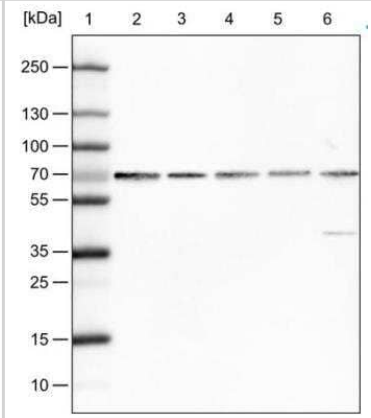
Western Blot: FUS Antibody (CL0190) [NBP2-52874] - Lane 1: Marker [kDa], Lane 2: Human cell line HeLa cytoplasmic fraction , Lane 3: Human cell line HeLa membrane fraction , Lane 4: Human cell line HeLa nuclear fraction , Lane 5: Human cell line HeLa chromatin fraction , Lane 6: Human cell line HeLa cytos



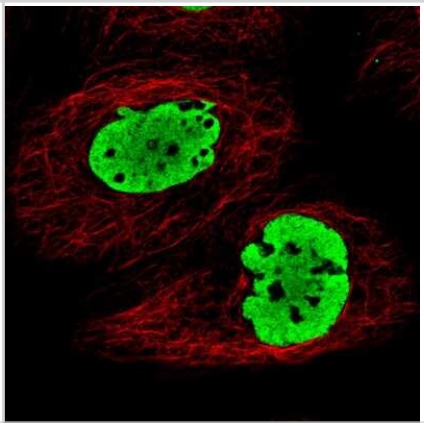
Immunocytochemistry/Immunofluorescence: FUS Antibody (CL0190) [NBP2-52874] - Staining in U2OS cell line with Anti-FUS monoclonal antibody, showing clear nuclear (without nucleoli) staining in green. Microtubule- and nuclear probes are visualized in red and blue respectively (where available). Antibody staining shown in green.



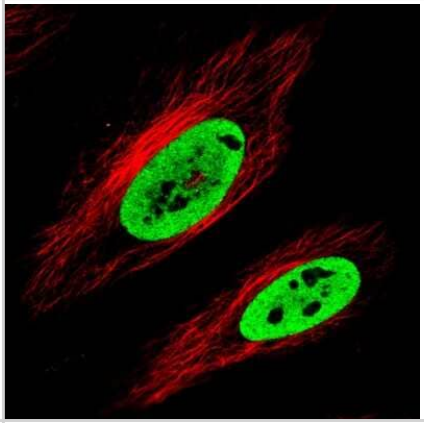
Western Blot: FUS Antibody (CL0190) [NBP2-52874] - Lane 1: Marker [kDa] Lane 2: Human cell line HeLa Lane 3: Human cell line A-431 Lane 4: Human cell line MCF-7 Lane 5: Human cell line U2-OS Lane 6: Human cell line Hep-G2



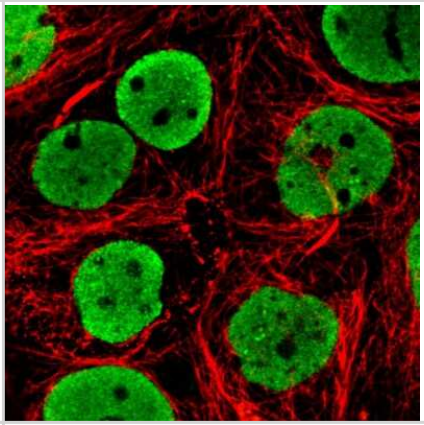
Immunocytochemistry/Immunofluorescence: FUS Antibody (CL0190) [NBP2-52874] - Staining in A431 cell line with Anti-FUS monoclonal antibody, showing clear nuclear (without nucleoli) staining in green. Microtubule- and nuclear probes are visualized in red and blue respectively (where available). Antibody staining is shown in green.



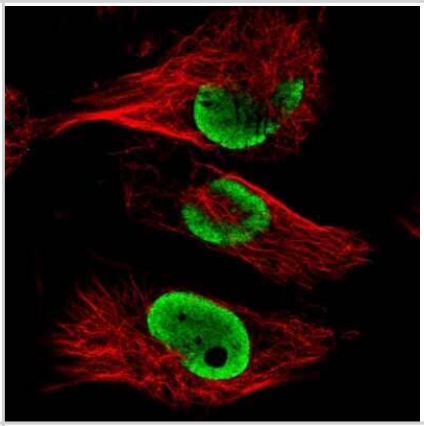
Immunocytochemistry/Immunofluorescence: FUS Antibody (CL0190) [NBP2-52874] - Staining in HeLa cell line with Anti-FUS monoclonal antibody, showing clear nuclear (without nucleoli) staining in green. Microtubule- and nuclear probes are visualized in red and blue respectively (where available). Antibody staining is shown in green.



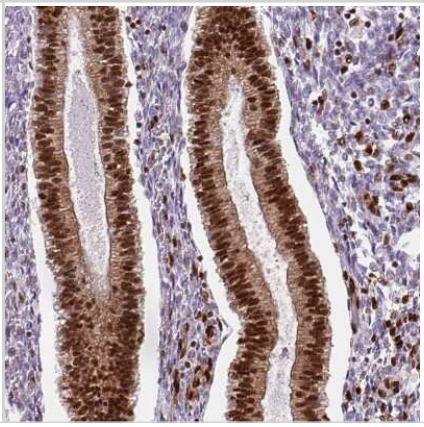
Immunocytochemistry/Immunofluorescence: FUS Antibody (CL0190) [NBP2-52874] - Staining in MCF7 cell line with Anti-FUS monoclonal antibody, showing clear nuclear (without nucleoli) staining in green. Microtubule- and nuclear probes are visualized in red and blue respectively (where available). Antibody staining is shown in green.



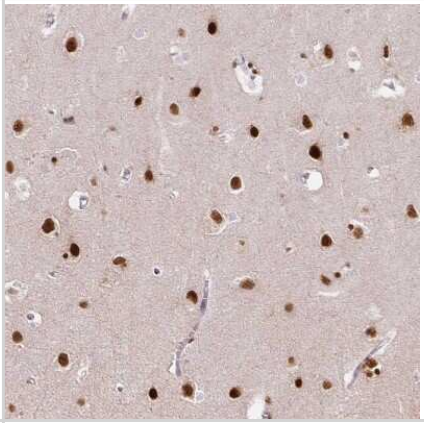
Immunocytochemistry/Immunofluorescence: FUS Antibody (CL0190) [NBP2-52874] - Staining in U251 cell line with Anti-FUS monoclonal antibody, showing clear nuclear (without nucleoli) staining in green. Microtubule- and nuclear probes are visualized in red and blue respectively (where available). Antibody staining is shown in green.



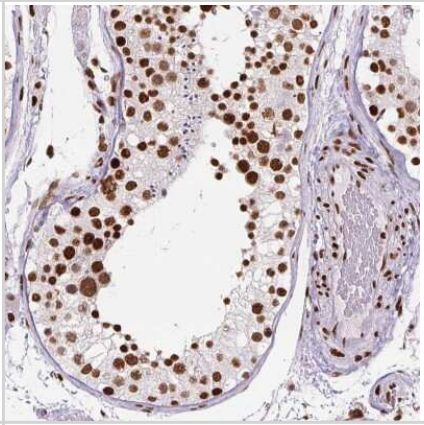
Immunohistochemistry-Paraffin: FUS Antibody (CL0190) [NBP2-52874] - Staining of human endometrium shows strong nuclear positivity in glandular cells.



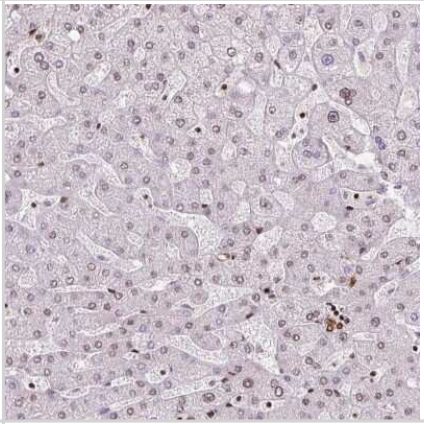
Immunohistochemistry-Paraffin: FUS Antibody (CL0190) [NBP2-52874] - Staining of human cerebral cortex shows strong nuclear positivity in neurons.



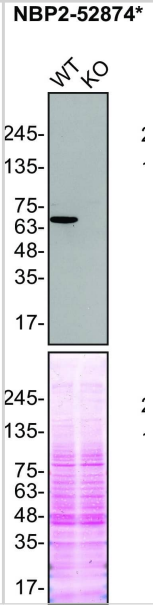
Immunohistochemistry-Paraffin: FUS Antibody (CL0190) [NBP2-52874] - Staining of human testis shows strong nuclear positivity in cells in seminiferous ducts.



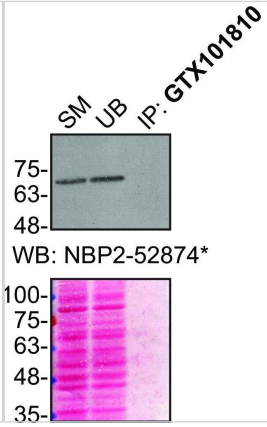
Immunohistochemistry-Paraffin: FUS Antibody (CL0190) [NBP2-52874] - Staining of human liver shows only very weak nuclear positivity in hepatocytes.



FUS antibody screening by Western Blot.Lysates of HeLa (WT andFUS KO) were prepared and 30 µg of protein were processed for Western Blot with the indicated FUS antibodies. The Ponceau stained transfers of each blot are presented to show equal loading of WT and KO lysates and protein transfer efficiency from the acrylamide gels to the nitrocellulose membrane. Antibody dilutions were chosen according to the recommendations of the antibody supplier. An exception was given for antibody GTX101810, which was titrated to 1/3000, as the signal was too weak when following the supplier's recommendation. Antibody dilution used: NBP2-52874* at 1/1000; GTX101810 at 1/3000; GTX01039* at 1/1000; 60160-1-Ig* at 1/10000; 11570-1-AP at 1/4000; MA3-089* at 1/2000; MA5-32483** at 1/1000, ab124923** at 1/5000; ab154141* at 1/1000; ab243880** at 1/1000. Predicted band size: 53 kDa. Observed specific band size: ~70 kDa. *Monoclonal antibody; **Recombinant antibody. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/37384305), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



FUS antibody screening by immunoprecipitation.HeLa lysates were prepared, and IP was performed using 1.0 µg of the indicated FUS antibodies pre-coupled to protein G or protein A Sepharose beads. Samples were washed and processed for Western Blot with the indicated FUS antibody. For Western Blot, NBP2-52874* and ab243880** were used at a dilution of 1/2000. The Ponceau stained transfers of each blot are shown for similar reasons as inFigure 1. SM=10% starting material; UB=10% unbound fraction; IP=immunoprecipitated. *Monoclonal antibody; **Recombinant antibody. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/37384305), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Alshalfie, W;Fotouhi, M;Ayoubi, R;You, Z;Southern, K;McPherson, PS;Laflamme, C;NeuroSGC/YCharOS/EDDU collaborative group, ; The identification of high-performing antibodies for RNA-binding protein FUS for use in Western Blot, immunoprecipitation, and immunofluorescence F1000Research 2023-06-26 [PMID: 37384305]

Mamontova, EM;Clément, MJ;Sukhanova, MV;Joshi, V;Bouhss, A;Rengifo-Gonzalez, JC;Desforges, B;Hamon, L;Lavrik, OI;Pastré, D; FUS RRM regulates poly(ADP-ribose) levels after transcriptional arrest and PARP-1 activation on DNA damage Cell reports 2023-10-05 [PMID: 37804508]

Vakil PR PARP-1 Activation Directs FUS to DNA Damage Sites to Form PARG-Reversible Compartments Enriched in Damaged DNA Cell Rep 2019-05-07 [PMID: 31067465]

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NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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