

Product Datasheet

TDP-43/TARDBP Antibody (3H8) - BSA Free NBP1-92695

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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NBP1-92695

TDP-43/TARDBP Antibody (3H8) - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	3H8
Preservative	5mM Sodium Azide
Isotype	IgG1
Purity	Immunogen affinity purified
Buffer	50% PBS, 50% glycerol
Target Molecular Weight	43 kDa

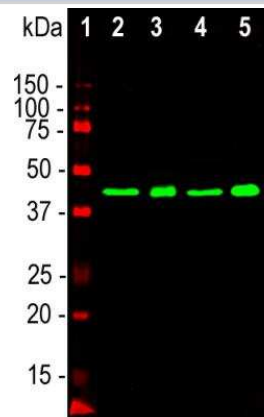
Product Description	
Description	Novus Biologicals Knockout (KO) Validated Mouse TDP-43/TARDBP Antibody (3H8) - BSA Free (NBP1-92695) is a monoclonal antibody validated for use in IHC, WB, ICC/IF and IP. Anti-TDP-43/TARDBP Antibody: Cited in 7 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	23435
Gene Symbol	TARDBP
Species	Human, Mouse, Rat, Porcine, Bovine, Equine
Immunogen	Full length recombinant human TDP43 expressed in and purified from E. coli, epitope in peptide HNSNRQLERSGRFGGNPGGF, amino acids 264-283 of the human sequence.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunoprecipitation, Immunohistochemistry Free-Floating, Knockout Validated
Recommended Dilutions	Western Blot 1:5000, Immunohistochemistry 1:1000, Immunocytochemistry/Immunofluorescence 1:1000, Immunoprecipitation, Immunohistochemistry-Paraffin, Immunohistochemistry Free-Floating, Knockout Validated
Application Notes	This TARDBP (3H8) antibody is useful for Immunocytochemistry/Immunofluorescence, Immunohistochemistry, and Western blot, where a band can be seen at 43 kDa. Use in IHC-P was reported in scientific literature (PMID: 23046583).

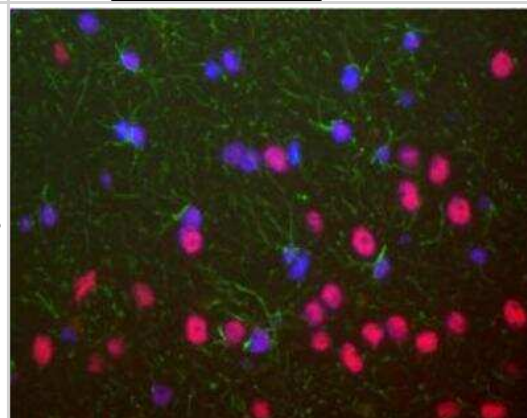


Images

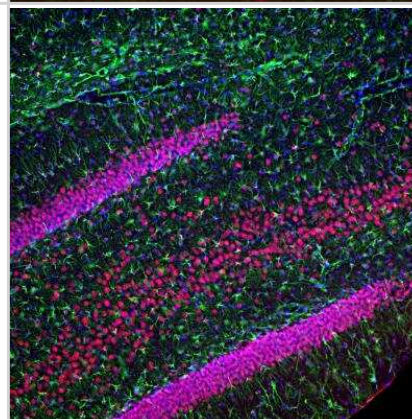
Western Blot: TDP-43/TARDBP Antibody (3H8) [NBP1-92695] - Analysis of whole brain lysates and nuclear inreached extract from whole brain using mouse mAb to TDP43, NBP1-92695, dilution 1:2,000 in green: [1] protein standard (red), [2] rat brain, [3] rat brain nuclear extract, [4] mouse brain, [5] mouse brain nuclear extract. Strong band at 43 kDa mark corresponds to TDP43 protein.



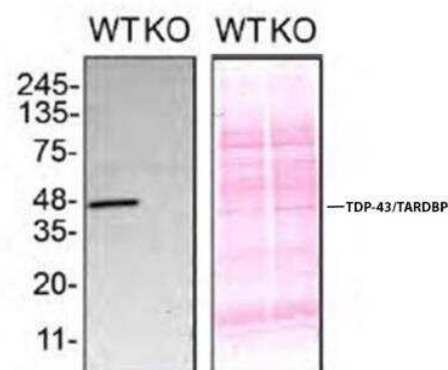
Immunocytochemistry/Immunofluorescence: TARDBP Antibody (3H8) [NBP1-92695] - NBP1-92695 was used to stain a section of formalin fixed adult rat brain, specifically the hippocampus. Hippocampal neuron nuclei are stained strongly. Chicken antibody to GFAP (NBP1-05198, green) shows the processes of astrocytic glial cells. Nuclei of all cells are revealed with DAPI DNA stain (blue). The TARDBP (3H8) antibody stains neuronal nuclei strongly and the nuclei of some non-neuronal cells much more weakly. Neuronal nuclei therefore look crimson, since they are both red due to the content of TARDBP and blue due to their content of DNA, stained blue with DAPI.



Immunohistochemistry Free-Floating: TDP-43/TARDBP Antibody (3H8) [NBP1-92695] - Analysis of rat hippocampus section stained with mouse mAb to TDP43, NBP1-92695, dilution 1:2,000 in red, and costained with chicken pAb to GFAP,, dilution 1:5,000 in green. The blue is DAPI staining of nuclear DNA. Following transcordial perfusion of rat with 4% paraformaldehyde, brain was post fixed for 24 hours, cut to 45uM, and free-floating sections were stained with above antibodies. The TDP43 protein is concentrated in the nuclei of hippocampal neurons, while the GFAP antibody stains the intermediate filament network of astroglial cells.



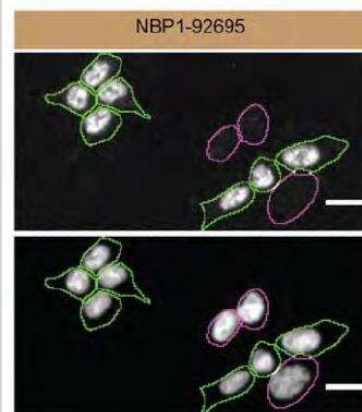
Western Blot: TDP-43/TARDBP Antibody (3H8) [NBP1-92695] - Lysates of HAP1 (WT) and TDP-43/TARDBP (KO) were prepared, and 50 ug of protein was processed for western blot with the TDP-43/TARDBP antibody. The Ponceau stained transfers of the blot is shown (right). Antibody dilution used: NBP1-92695 at 1/1000. Image, protocol, and testing courtesy of YCharOS Inc. (ycharos.com).



Immunoprecipitation: TDP-43/TARDBP Antibody (3H8) [NBP1-92695] - HAP1 lysates were prepared, and immunoprecipitation was performed using 2.0 ug of the TDP-43/TARDBP antibody pre-coupled to Dynabeads protein G. Sample was washed and processed for immunoblot with the TDP-43/TARDBP antibody. The Ponceau stained transfer of the blot is shown. Image, protocol, and testing courtesy of YCharOS Inc. (ycharos.com).



Immunocytochemistry/ Immunofluorescence: TDP-43/TARDBP Antibody (3H8) [NBP1-92695] - HAP1 (WT) and TDP-43/TARDBP (KO) cells were labelled with a green or a far-red fluorescent dye, respectively. WT and KO cells were mixed and plated to a 1:1 ratio in a 96-well plate with glass bottom. Cells were stained with the TDP-43/TARDBP antibody and with the corresponding Alexa-fluor 555 coupled secondary antibody including DAPI. Acquisition of the blue (nucleus-DAPI), green (identification of WT cells), red (antibody staining) and far-red (identification of KO cells) channels was performed. Representative images of the blue and red (grayscale) channels are shown. WT and KO cells are outlined on both channels with green and magenta dashed line, respectively. Antibody dilution used: NBP1-92695 at 1/1000. Image, protocol, and testing courtesy of YCharOS Inc. (ycharos.com).



Publications

Worrall, D;Ayoubi, R;Fotouhi, M;Southern, K;McPherson, PS;Laflamme, C;NeuroSGC/YCharOS/EDDU collaborative group, ;ABIF Consortium, ; The identification of high-performing antibodies for TDP-43 for use in Western Blot, immunoprecipitation and immunofluorescence F1000Research 2023-06-20 [PMID: 37359785] (Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Mouse)

Chevalier E, Audrain M, Ratnam M et Al. Targeting the TDP-43 low complexity domain blocks spreading of pathology in a mouse model of ALS/FTD Acta Neuropathol Commun 2024-10-04 [PMID: 39363348]

Evangelista B, Cahalan S, Ragusa J et al. Tandem detergent-extraction and immunoprecipitation of proteinopathy: Scalable enrichment of ALS-associated TDP-43 aggregates iScience 2023-05-01 [PMID: 37182104] (WB, WB)

Kiryu-Seo S, Matsushita R, Tashiro Y et al. Impaired disassembly of the axon initial segment restricts mitochondrial entry into damaged axons The EMBO journal 2022-08-25 [PMID: 36004759] (IHC-Fr, Mouse)

Details:

Dilutions: 1:500

De Rossi P, Lewis AJ, Furrer J Et al. FTLTDP assemblies seed neoaggregates with subtype-specific features via a prion-like cascade EMBO reports 2021-11-22 [PMID: 34806807] (IF/IHC, Human)

Maatta TA, Rettel M, Sridharan S et al. Aggregation and disaggregation features of the human proteome Mol Syst Biol 2020-10-01 [PMID: 33022891] (ICC/IF, Human)

Verbeeck C, Deng Q, Dejesus-Hernandez M et al. Expression of Fused in sarcoma mutations in mice recapitulates the neuropathology of FUS proteinopathies and provides insight into disease pathogenesis Mol Neurodegener 2012-10-10 [PMID: 23046583] (IF/IHC, ICC/IF, Mouse)



Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP1-92695

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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