Product Datasheet

TAF15 Antibody - BSA Free
NB100-567

Unit Size: 100 ul

Store at 4C. Do not freeze.

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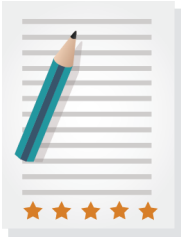
Publications: 7

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NB100-567

Updated 9/9/2025 v.20.1



NB100-567

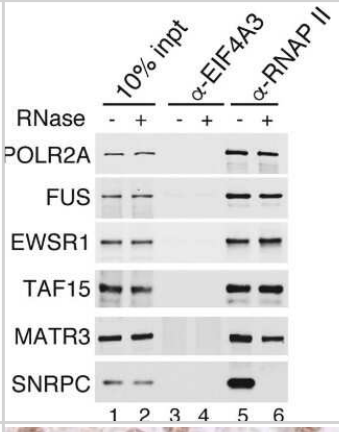
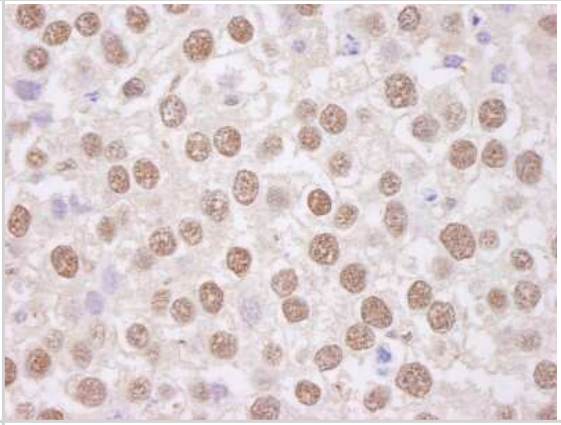
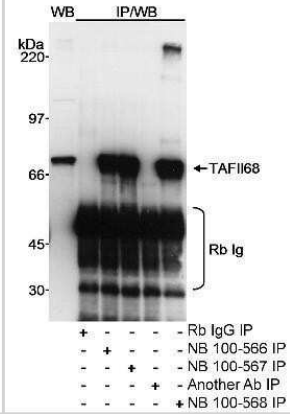
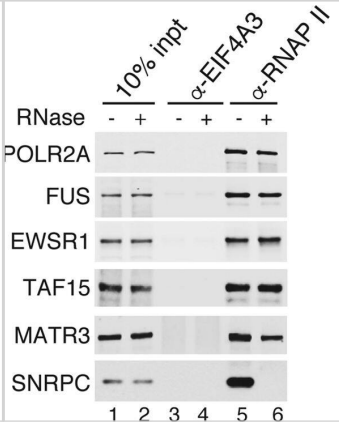
TAF15 Antibody - BSA Free

Product Information	
Unit Size	100 ul
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)

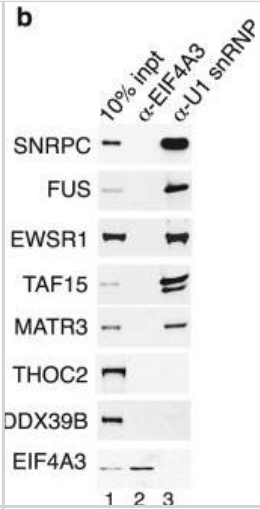
Product Description	
Description	Novus Biologicals Rabbit TAF15 Antibody - BSA Free (NB100-567) is a polyclonal antibody validated for use in IHC, WB, Simple Western and IP. Anti-TAF15 Antibody: Cited in 7 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	8148
Gene Symbol	TAF15
Species	Human
Immunogen	A synthetic peptide which maps to a region between residues 200 and 250 of human TAFII68 using the numbering given in Swiss-Prot entry Q92804 (GeneID 8148).

Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot 1:5000-1:20000, Simple Western 1:100, Immunohistochemistry 1:1000 - 1:5000, Immunoprecipitation 1-4 ug/mg lysate, Immunohistochemistry-Paraffin 1:250
Application Notes	Optimal working dilutions should be determined experimentally by the investigator. Prepare working dilution immediately before use. In some cases, the antibody may be diluted further than indicated. Epitope retrieval with citrate buffer pH6.0 is recommended for FFPE tissue sections. See Simple Western Antibody Database for Simple Western validation: separated by Size, antibody dilution of 1:100, apparent MW was 68 kDa

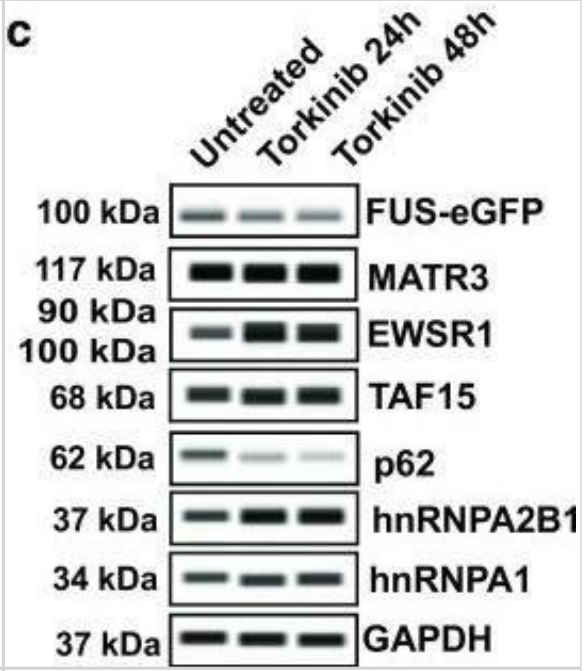
Images

Western Blot: TAF15 Antibody [NB100-567] - ALS proteins associate with the RNAP II/U1 snRNP machinery in an RNA-independent manner. IPs were carried out from RNase A-treated or untreated nuclear extract using an RNAP II or a negative control antibody (EIF4A3) followed by westerns with the indicated antibodies. Image collected and cropped by CiteAb from the following publication (https://academic.oup.com/nar/article/46/22/11939/5162471), licensed under a CC-BY license.	
Immunohistochemistry-Paraffin: TAF15 Antibody [NB100-567] - Sample: FFPE section of human testicular seminoma. Antibody: Affinity purified rabbit anti- TAFII68 used at a dilution of 1:5,000 (0.2ug/ml). Detection: DAB	
Immunoprecipitation: TAF15 Antibody [NB100-567] - Detection of human TAFII68 on HeLa whole cell lysate using NB100-567. TAFII68 was IPed with rabbit anti-TAFII68 antibodies NB100-566, NB100-567, NB100-568, and another using each at 0.3 ug/mg lysate.	
ALS proteins associate with the RNAP II/U1 snRNP machinery in an RNA-independent manner. IPs were carried out from RNase A-treated or untreated nuclear extract using an RNAP II or a negative control antibody (EIF4A3) followed by westerns with the indicated antibodies.	

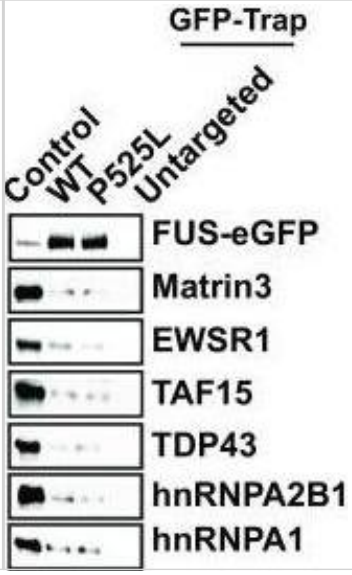
Western Blot: TAF15 Antibody [NB100-567] - FET proteins & MATR3 associate with U1 snRNP. (a) Immunoprecipitations (IPs) were carried out with antibodies to FET proteins or MATR3 followed by analysis on a Coomassie-stained gel. Molecular weight markers & protein identified by mass spectrometry are indicated. (b) IPs were carried out from nuclear extract using a negative control antibody (EIF4A3) or an antibody to the SNRPC subunit of the U1 snRNP followed by Westerns with the indicated antibodies. (c) IPs were carried out with the indicated antibodies from nuclear extract treated with a U1 snRNA AMO or a negative control AMO followed by Western using the SNRPC antibody. (d) Same as (c) except that total RNAs from the IPs were examined on a denaturing gel stained with ethidium bromide. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/29884807), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Simple Western: TAF15 Antibody [NB100-567] - Autophagic clearance of aberrantly accumulated cytoplasmic FUS restores protein homeostasis & ameliorates survival of SL P525L iPSC-derived neurons. a Confocal micrographs showing FUS-eGFP distribution before & after Torkinib treatment (above). Arrowhead indicates FUS-eGFP cytoplasmic accumulation in untreated neurites; arrow shows reduced FUS-eGFP cytoplasmic signal following torkinib treatment. Quantification of cytoplasmic FUS-eGFP signal intensity in acquired images (below) confirms clearance of mislocalized FUS-eGFP protein. Scale bar = 10 µm. b FRAP analysis performed on untreated versus torkinib-treated neurons shows comparable dynamics of FUS-eGFP recovery. n = 3. Error bars indicate SEM. CHX = cycloheximide. c WES capillary electrophoresis & d corresponding quantification of the indicated proteins in P525L SL neurons before & after torkinib treatment. Autophagy stimulation restores physiological levels. n = 4. Error bars indicate SEM. * & ** Correspond to p < 0.05 & 0.01, respectively. e 6 h of torkinib reduces apoptotic cell death identified by cleaved Caspase 3 staining. Scale bar = 50 µm Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/30937520), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Simple Western: TAF15 Antibody [NB100-567] - The cytoplasmic mislocalization induced by P525L causes reduced FUS binding to several ALS-associated RBPs, promoting aggregation. a, b Western blot analysis of FUS protein interactors in a LL & b SL neurons after FUS-eGFP immunoprecipitation reveals differential interactions with several ALS-associated partners. n = 4. Error bars indicate SEM. *, **, & *** Correspond to p < 0.05, 0.01, & 0.001, respectively. c In vitro phase separation assay showing fibrillization of purified P525L LL FUS-eGFP protein in the presence or absence of distinct RBPs. Investigated RBPs effectively prevent FUS fibril formation. d Fluorescence recovery after photobleaching (FRAP) was used to assess the dynamics of P525L LL FUS at the tested conditions for the indicated time points. RBPs promote the maintenance of a liquid-like behavior. e Co-localization of P525L LL FUS with the reported RBPs. Scale bar 5 µm Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/30937520), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



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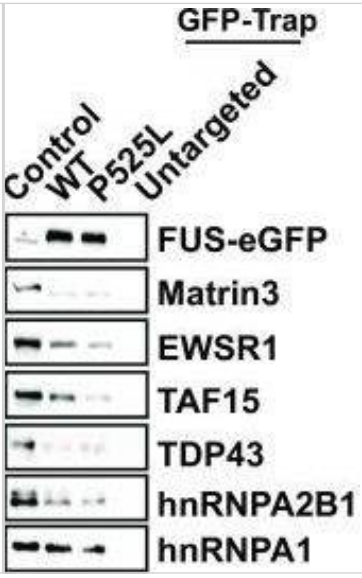

Publications

Maron MI, Lehman SM, Gayatri S, DeAngelo JD et Al. Independent transcriptomic and proteomic regulation by type I and II protein arginine methyltransferases iScience 2021-09-10 [PMID: 34505004]

P Zhang, E The, B Nedumaran, L Ao, MJ Jarrett, D Xu, DA Fullerton, X Meng Monocytes enhance the inflammatory response to TLR2 stimulation in aortic valve interstitial cells through paracrine up-regulation of TLR2 level Int J Biol Sci, 2020-10-03;16(15):3062-3074. 2020-10-03 [PMID: 33061818]

Su Z, Sun Z, Wang Z et al. TIF1 gamma inhibits lung adenocarcinoma EMT and metastasis by interacting with the TAF15/TBP complex Cell reports 2022-10-18 [PMID: 36261009] (KD, WB, IP, Human)

Chi B, O'Connell JD, Iocolano AD et al. The neurodegenerative diseases ALS and SMA are linked at the molecular level via the ASC-1 complex. Nucleic Acids Res. 2018-11-06 [PMID: 30398641] (WB, Human)

Chi B, O'Connell JD, Yamazaki T et al. Interactome analyses revealed that the U1 snRNP machinery overlaps extensively with the RNAP II machinery and contains multiple ALS/SMA-causative proteins Sci Rep 2018-06-08 [PMID: 29884807] (WB, Human)

Davidson YS, Robinson AC, Hu Q et al. Nuclear Carrier and RNA Binding Proteins in Frontotemporal Lobar Degeneration associated with Fused in Sarcoma (FUS) pathological changes. Neuropathol Appl Neurobiol 2012-04-01 [PMID: 22497712]

Neumann M, Bentmann E, Dormann D et al. FET proteins TAF15 and EWS are selective markers that distinguish FTLD with FUS pathology from amyotrophic lateral sclerosis with FUS mutations. Brain 2011-09-01 [PMID: 21856723]

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Products Related to NB100-567

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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