

Product Datasheet

FUS Antibody - BSA Free NB100-562

Unit Size: 100 ul

Store at 4C. Do not freeze.

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NB100-562

FUS 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 Knockout (KO) Validated Rabbit FUS Antibody - BSA Free (NB100-562) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and IP. Anti-FUS Antibody: Cited in 8 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	2521
Gene Symbol	FUS
Species	Human, Mouse
Immunogen	A synthetic peptide which maps to a region between residues 500 and the C-terminus (residue 526) of human fusion (involved in t(12;16) in malignant liposarcoma) using the numbering given in SwissProt entry P35637 (GeneID 2521).

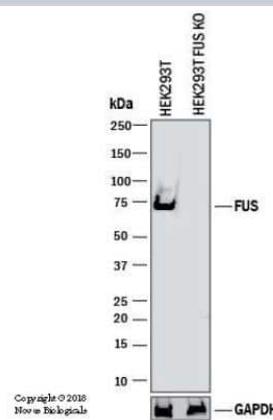
Product Application Details

Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry, Immunoprecipitation, Knockout Validated
Recommended Dilutions	Western Blot 1:10000-1:50000, Immunohistochemistry 1:1000-1:10000, Immunoprecipitation 2-10 ug/mg lysate, Immunohistochemistry-Paraffin 1:1000-1:10000, Knockout Validated
Application Notes	Prepare working dilution immediately before use. Epitope retrieval with citrate buffer pH6.0 is recommended for FFPE tissue sections.

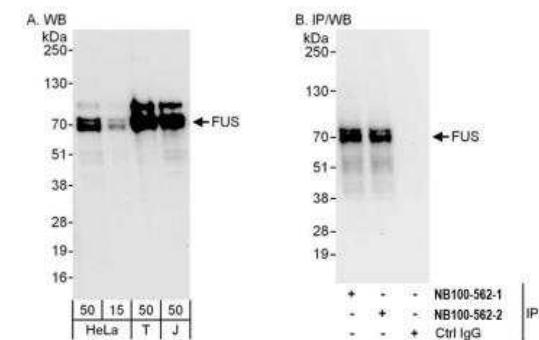


Images

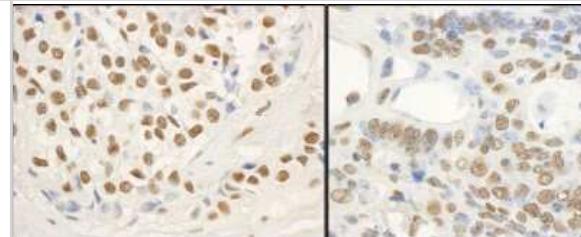
Western Blot: FUS Antibody [NB100-562] - Western blot shows lysates of HEK293 human embryonic kidney parental cell line and FUS knockout (KO) HEK293 human embryonic kidney cell line. PVDF membrane was probed with 1:1000 of Rabbit Anti-Human FUS Polyclonal Antibody (Catalog # NB100-562) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog #HAF008). Specific band was detected for FUS at approximately 75 kDa (as indicated) in the parental HEK293 cell line, but is not detectable in the knockout HEK293 cell line. This experiment was conducted under reducing conditions.



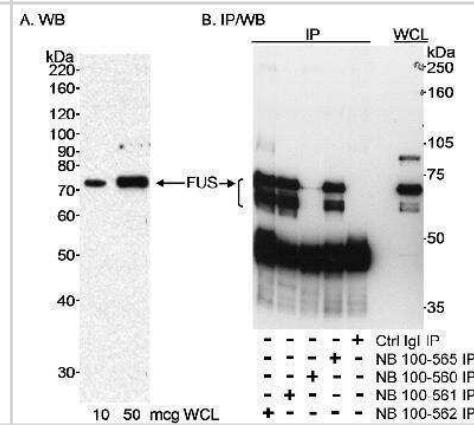
Western Blot: FUS Antibody [NB100-562] - Detection of human FUS by western blot and immunoprecipitation. Samples: Whole cell lysate from HeLa (15 and 50 ug for WB; 1 mg for IP, 20% of IP loaded), HEK293T (T; 50 ug) and Jurkat (J; 50 ug) cells. Antibodies: Affinity purified rabbit anti-FUS antibody NB100-562 (lot NB100-562-2) used for WB at 0.1 ug/ml (A) and 1 ug/ml (B) and used for IP at 6 ug/mg lysate. FUS was also immunoprecipitated by a previous lot (lot NB100-562-1) of this antibody. Detection: Chemiluminescence with exposure times of 3 seconds (A) and 10 seconds (B).



Immunohistochemistry-Paraffin: FUS Antibody [NB100-562] - Section of human breast carcinoma (left) and mouse teratoma (right). Antibody: Affinity purified rabbit anti-FUS used at a dilution of 1:5,000 (0.2ug/ml) and 1:1,000 (1ug/ml). Detection: DAB



Western Blot: FUS Antibody [NB100-562] - Detection of human FUS on HeLa whole cell lysate using NB100-562. For IP in B, rabbit anti-FUS antibodies NB100-560, NB100-561, NB100-562 and NB100-565 were used.



Publications

Birsa N, Ule AM, Garone MG et al. FUS-ALS mutants alter FMRP phase separation equilibrium and impair protein translation. *Science Advances* 2021-07-23 [PMID: 34290090]

Beermann ML, Ardel M, Girgenrath M et al. Prdm1 (Blimp-1) and the expression of fast and slow myosin heavy chain isoforms during avian myogenesis in vitro. *PLoS One*. 2010-04-01 [PMID: 20376350]

Devoy A, Price G, De Giorgio F Et al. Generation and analysis of innovative genomically humanized knockin SOD1, TARDBP (TDP-43), and FUS mouse models. *iScience* 2021-12-01 [PMID: 34988393] (WB, Human)

Guo L, Kim H J et al. Nuclear-Import Receptors Reverse Aberrant Phase Transitions of RNA-Binding Proteins with Prion-like Domains. *Cell* 2018-04-19 [PMID: 29677512] (ICC/IF, Human)

Moore MJ, Blachere NE, Fak JJ et al. ZFP36 RNA-binding proteins restrain T cell activation and anti-viral immunity. *Elife*. 2018-05-31 [PMID: 29848443] (WB, Human)

Lashley T, Rohrer JD, Bandopadhyay R et al. A comparative clinical, pathological, biochemical and genetic study of fused in sarcoma proteinopathies. *Brain* 2011-09-01 [PMID: 21752791] (Human)

Tan AY, Riley TR, Coady T et al. TLS/FUS (translocated in liposarcoma/fused in sarcoma) regulates target gene transcription via single-stranded DNA response elements. *Proc Natl Acad Sci U S A* 2012-04-01 [PMID: 22460799]

Tan AY, Manley JL. TLS inhibits RNA polymerase III transcription. *Mol Cell Biol* 2010-01-01 [PMID: 19841068]



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Products Related to NB100-562

NB800-PC1	HeLa Whole Cell Lysate
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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