

# Product Datasheet

## FUS Antibody - BSA Free NB100-561

Unit Size: 100 ul

Store at 4C. Do not freeze.

[www.novusbio.com](http://www.novusbio.com)



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**NB100-561**

FUS Antibody - BSA Free

**Product Information**

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

**Product Description**

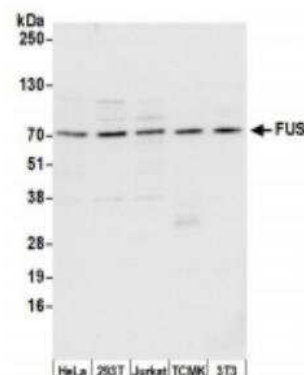
<b>Description</b>	Novus Biologicals Rabbit FUS Antibody - BSA Free (NB100-561) is a polyclonal antibody validated for use in IHC, WB and IP. Anti-FUS Antibody: Cited in 11 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	2521
<b>Gene Symbol</b>	FUS
<b>Species</b>	Human, Mouse
<b>Immunogen</b>	A synthetic peptide which maps to a region between residues 400 and 450 of human fusion (involved in t(12;16) in malignant liposarcoma) using the numbering given in SwissProt entry P35637 (GeneID 2521).

**Product Application Details**

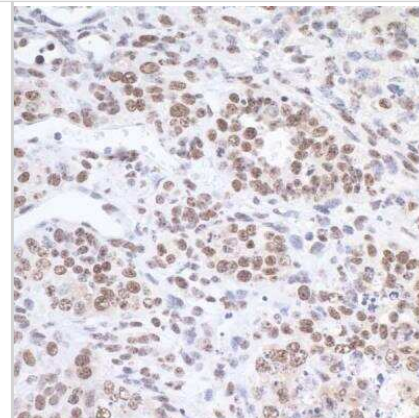
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry, Immunoprecipitation
<b>Recommended Dilutions</b>	Western Blot 1:2000 - 1:10000, Immunohistochemistry, Immunoprecipitation 2-10 ug/mg lysate, Immunohistochemistry-Paraffin 1:1000-1:5000
<b>Application Notes</b>	Epitope retrieval with citrate buffer pH6.0 is recommended for FFPE tissue sections.

**Images**

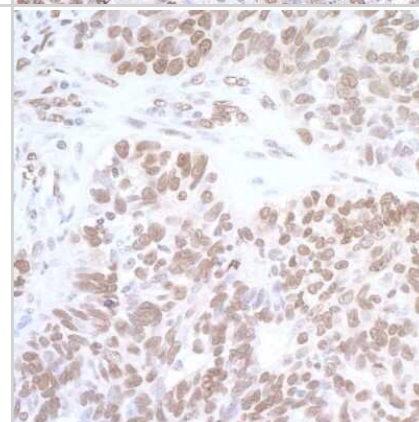
Western Blot: FUS Antibody [NB100-561] - Whole cell lysate (15 ug) from HeLa, HEK293T, Jurkat, mouse TCMK-1, and mouse NIH 3T3 cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-FUS antibody used for WB at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 3 seconds.



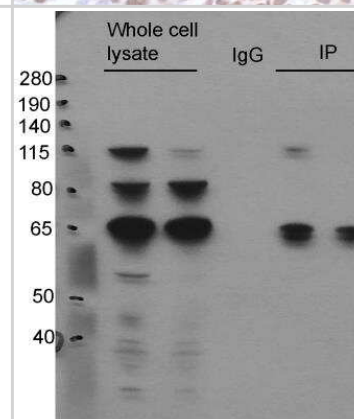
Immunohistochemistry-Paraffin: FUS Antibody [NB100-561] - Detection of mouse FUS by immunohistochemistry. Sample: FFPE section of mouse teratoma Antibody: Affinity purified rabbit anti-FUS (NB100-561) used at 1:5,000 (0.2ug/ml). Detection: DAB



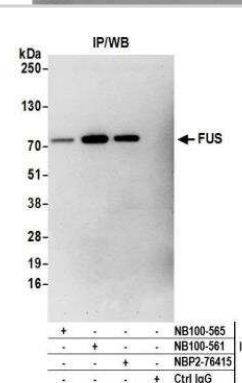
Immunohistochemistry-Paraffin: FUS Antibody [NB100-561] - Section of human ovarian carcinoma. Antibody: Affinity purified rabbit anti-FUS (NB100-561). Detection: DAB



Immunoprecipitation: FUS Antibody [NB100-561] - FUS immunoprecipitation in human fibroblast cell lysates. Image from verified customer review.



Immunoprecipitation: FUS Antibody [NB100-561] - Detection of human FUS by western blot of immunoprecipitates. Samples: Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from HEK293T cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-FUS antibody NB100-561 used for IP at 3 ug per reaction. FUS was also immunoprecipitated by rabbit anti-FUS recombinant monoclonal antibody [BLR023E] (NBP2-76415) and rabbit anti-FUS antibody NB100-565. For blotting immunoprecipitated FUS, NBP2-76415 was used at 1:1000. Detection: Chemiluminescence with an exposure time time of 3 minutes.



## Publications

VH Ng, BI Hang, LM Sawyer, LR Neitzel, EE Crispi, KL Rose, TM Popay, A Zhong, LA Lee, WP Tansey, S Huppert, E Lee Phosphorylation of XIAP at threonine 180 controls its activity in Wnt signaling J. Cell. Sci., 2018-05-22;0(0):. 2018-05-22 [PMID: 29678905]

Chiu CF, Lin YQ, Park JM et al. The novel camptothecin derivative, CPT211, induces cell cycle arrest and apoptosis in models of human breast cancer Biomed. Pharmacother. 2020-08-01 [PMID: 32505820]

Li J, Song M, Moh S et al. Cytoplasmic Restriction of Mutated SOD1 Impairs the DNA Repair Process in Spinal Cord Neurons Cells 2019-11-23 [PMID: 31771229] (IF/IHC, Mouse)

Wang IX, Grunseich C, Fox J et al. Human proteins that interact with RNA/DNA hybrids Genome Res. 2018-08-14 [PMID: 30108179] (IP, Human)

Ishigaki S, Masuda A, Fujioka Y et al. Position-dependent FUS-RNA interactions regulate alternative splicing events and transcriptions. Sci Rep 2012-01-01 [PMID: 22829983]

Aoki N, Higashi S, Kawakami I et al. Localization of fused in sarcoma (FUS) protein to the post-synaptic density in the brain. Acta Neuropathol 2012-09-01 [PMID: 22526020]

Necchi D, Lomoio S, Scherini E et al. Dysfunction of the ubiquitin-proteasome system in the cerebellum of aging Ts65Dn mice. Exp Neurol 2011-12-01 [PMID: 21867700]

Bosco DA, Lemay N, Ko HK et al. Mutant FUS proteins that cause amyotrophic lateral sclerosis incorporate into stress granules. Hum Mol Genet 2010-11-01 [PMID: 20699327]

Groen EJ, van Es MA, van Vught PW et al. FUS mutations in familial amyotrophic lateral sclerosis in the Netherlands. Arch Neurol 2010-02-01 [PMID: 20142531]

Goulet I, Boisvenue S, Mokas S et al. TDRD3, a novel Tudor domain-containing protein, localizes to cytoplasmic stress granules. Hum Mol Genet 2008-10-01 [PMID: 18632687]

Hume DA, Sasmono T, Himes SR et al. The Ewing sarcoma protein (EWS) binds directly to the proximal elements of the macrophage-specific promoter of the CSF-1 receptor (csf1r) gene. J Immunol 2008-05-01 [PMID: 18453593]





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### **Products Related to NB100-561**

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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

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### **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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