

Product Datasheet

FUS Antibody NB100-2599

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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Updated 10/23/2024 v.20.1

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NB100-2599

FUS Antibody

Product Information	
Unit Size	0.1 ml
Concentration	0.25 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	TBS and 0.1% BSA

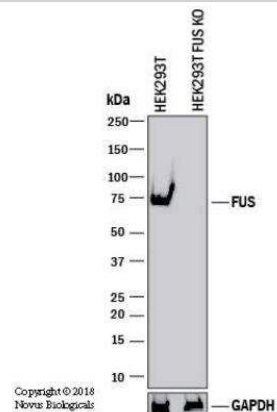
Product Description	
Host	Rabbit
Gene ID	2521
Gene Symbol	FUS
Species	Human, Mouse
Reactivity Notes	Panda, Orangutan, Gorilla, Chimpanzee and thirteen-lined ground squirrel (100%).
Immunogen	The immunogen recognized by this antibody maps to a region between residues 1 and 50 of human fusion (involved in t(12;16) in malignant liposarcoma) using the numbering given in SwissProt entry P35637 (GeneID 2521).

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Knockout Validated
Recommended Dilutions	Western Blot 1:100-1:2000, Immunohistochemistry 1:100-1:500, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 1:100-1:500, Knockout Validated
Application Notes	Epitope exposure is recommended. Epitope exposure with citrate buffer will enhance staining. Likely to work with frozen sections. WB reactivity reported in (PMID: 23474818). Use in ICC/IF reported in scientific literature (PMID:33483540)

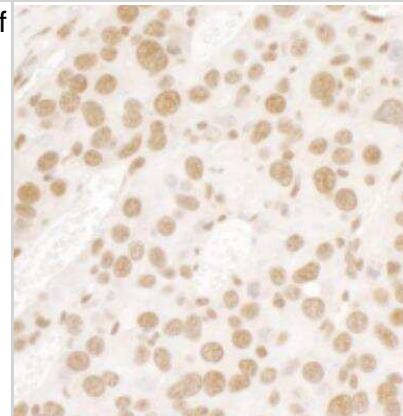


Images

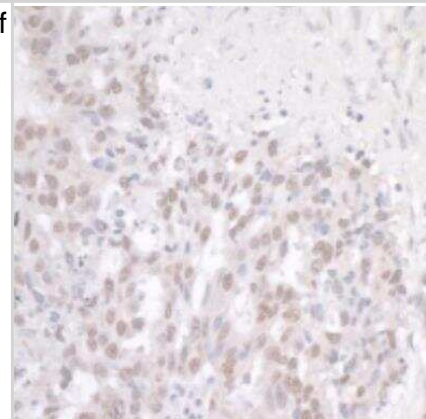
Knockout Validated: FUS Antibody [NB100-2599] - Western blot shows lysates of HEK293 human embryonic kidney parental cell line and FUS knockout (KO) HEK293 human embryonic kidney cell line. PVDF membrane was probed with 1:1000 of Rabbit Anti-Human FUS Polyclonal Antibody (Catalog # NB100-2599) followed 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.



Immunohistochemistry-Paraffin: FUS Antibody [NB100-2599] - Section of mouse renal cell carcinoma. Antibody: Affinity purified rabbit anti-FUS used at a dilution of 1:100. Detection: DAB



Immunohistochemistry-Paraffin: FUS Antibody [NB100-2599] - Section of human ovarian carcinoma. Antibody: Affinity purified rabbit anti-FUS used at a dilution of 1:500. Detection: DAB staining using anti-rabbit IHC antibody.



Publications

Wharton, S B, Verber, N S Et al. Combined fused in sarcoma-positive (FUS+) basophilic inclusion body disease and atypical tauopathy presenting with an amyotrophic lateral sclerosis/motor neurone disease (ALS/MND)-plus phenotype. *Neuropathol Appl Neurobiol* 2019-10-01 [PMID: 30659642] (WB, Mouse)

Spijkers XM, Pasteuning-Vuhman S, Dorleijn JC, et al. A directional 3D neurite outgrowth model for studying motor axon biology and disease *Scientific reports* 2021-01-22 [PMID: 33483540] (ICC/IF, Human)

Mori S, Honda H, Ishii T et al. Expanded polyglutamine impairs normal nuclear distribution of fused in sarcoma and poly (rC)-binding protein 1 in Huntington's disease *Neuropathology* 2019-10-01 [PMID: 31599037]

Cooper-Knock J, Walsh MJ, Higginbottom A et al. Sequestration of multiple RNA recognition motif-containing proteins by C9orf72 repeat expansions. *Brain*. 2014-05-27 [PMID: 24866055] (IHC-P, Human)

Vance C, Scotter EL, Nishimura AL et al. ALS mutant FUS disrupts nuclear localization and sequesters wild-type FUS within cytoplasmic stress granules *Hum Mol Genet* 2013-03-29 [PMID: 23474818] (WB, IHC-P, Human)

Seilhean D, Le Ber I, Sarazin M, Lacomblez L, Millecamps S, Salachas F, Pradat PF, Le Forestier N, LeGuern E, Dubois B, Meininger V, Brice A, Hauw JJ, Duyckaerts C. Fronto-temporal lobar degeneration: neuropathology in 60 cases. *J Neural Transm*;118(5):753-64. 2011-05-01 [PMID: 21541771] (IF/IHC, Human)





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Products Related to NB100-2599

NBL1-10861	FUS Overexpression 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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