

DATASHEET

FUS Rabbit Polyclonal Antibody

CAT. NO. APA14495

KEY FEATURES

Target	FUS	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB, IF/ICC, IP	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at -20°C

BACKGROUND

DNA/RNA-binding protein that plays a role in various cellular processes such as transcription regulation, RNA splicing, RNA transport, DNA repair and damage response . Binds to ssRNA containing the consensus sequence 5'-AGGUAA-3' . Binds to nascent pre-mRNAs and acts as a molecular mediator between RNA polymerase II and U1 small nuclear ribonucleoprotein thereby coupling transcription and splicing . Also binds its own pre-mRNA and autoregulates its expression; this autoregulation mechanism is mediated by non-sense-mediated decay . Plays a role in DNA repair mechanisms by promoting D-loop formation and homologous recombination during DNA double-strand break repair .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IF/ICC	1:50 - 1:200
IP	1:10 - 1:50

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Rabbit polyclonal antibody to FUS
Specificity	Recognizes endogenous levels of FUS protein.
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human FUS
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 53 kD; Observed: 70 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	TLS; RNA-binding protein FUS; 75 kDa DNA-pairing protein; Oncogene FUS; Oncogene TLS; POMp75; Translocated in liposarcoma protein
Gene Symbol	FUS
Entrez Gene	2521(Human); 233908(Mouse)
SwissProt	P35637(Human); P56959(Mouse)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

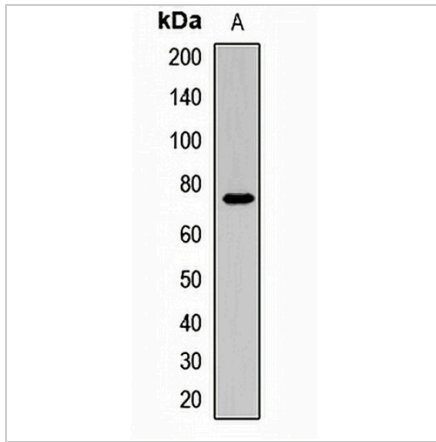
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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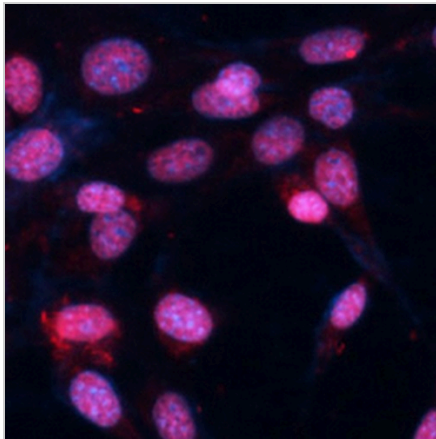
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DATA



Western blot analysis of FUS expression in Jurkat (A) whole cell lysates. (Predicted band size: 53 kD; Observed band size: 70 kD)



Immunofluorescent analysis of FUS staining in NIH3T3 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AREX® Fluor 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.