

Anti-FUS / TLS Antibody

Rabbit Anti Human Polyclonal Antibody

Catalog # ALS17980

Product Information

Application	WB, IHC-P, E
Primary Accession	P35637
Predicted	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	53426

Additional Information

Gene ID	2521
Alias Symbol	FUS
Other Names	FUS, 75 kDa DNA-pairing protein, ALS6, CHOP, FUS-CHOP, FUS1, Fused in sarcoma, HnRNP-P2, HNRNPP2, Oncogene TLS, RNA-binding protein FUS, TLS, C/EBP-homologous protein, ETM4, Fus-like protein, Oncogene FUS, POMP75
Target/Specificity	Human FUS / Gadd153
Reconstitution & Storage	Caprylic acid and ammonium sulfate precipitation
Precautions	Anti-FUS / TLS Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	FUS
Synonyms	TLS
Function	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 (PubMed: 27731383). Binds to ssRNA containing the consensus sequence 5'-AGGUAA-3' (PubMed: 21256132). 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 (PubMed: 26124092). Also binds its own pre- mRNA and autoregulates its expression; this autoregulation mechanism is mediated by non-sense-mediated decay (PubMed: 24204307). Plays a role in DNA repair mechanisms by promoting D-loop formation and homologous recombination during DNA double-strand break repair (PubMed: 10567410). In neuronal

cells, plays crucial roles in dendritic spine formation and stability, RNA transport, mRNA stability and synaptic homeostasis (By similarity).

Cellular Location

Nucleus Note=Displays a punctate pattern inside the nucleus and is excluded from nucleoli.

Tissue Location

Ubiquitous.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.