

FUS Rabbit mAb

Catalog # AP77594

Product Information

Application	WB, IHC-P, IF, FC, ICC
Primary Accession	P35637
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Immunogen	A synthesized peptide derived from human FUS / TLS
Purification	Affinity Chromatography
Calculated MW	53426

Additional Information

Gene ID	2521
Other Names	FUS
Dilution	WB~~1/500-1/1000 IHC-P~~N/A IF~~1:50~200 FC~~1:10~50 ICC~~N/A
Format	Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

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).

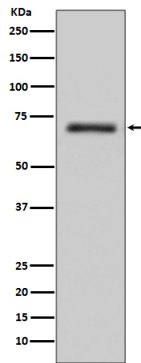
Cellular Location

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

Tissue Location

Ubiquitous.

Images



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