

Polyclonal Antibody to Fusion (FUS)

Fusion

Catalog # AP74616

Product Information

Application	WB
Primary Accession	P56959
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	52673

Additional Information

Gene ID	233908
Other Names	ALS6; TLS; hnRNP-P2; Amyotrophic Lateral Sclerosis 6; Heterogeneous Nuclear Ribonucleoprotein P2; 75 kDa DNA-pairing protein; Translocated in liposarcoma protein; CHOP
Target/Specificity	Mus musculus (Mouse)
Dilution	WB~~Western blotting: 0.5-2 μ g/mL Immunohistochemistry: 5-20 μ g/mL Immunocytochemistry: 5-20 μ g/mL Optimal working dilutions must be determined by end user.
Format	0.01M PBS, pH7.4, containing 0.05% Proclin-300, 50% glycerol.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	Fus
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. Binds to ssRNA containing the consensus sequence 5'-AGGUAA-3' (By similarity). 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 (By similarity). In neuronal cells, plays crucial roles in dendritic spine formation and stability, RNA transport, mRNA stability and synaptic homeostasis (PubMed: 16317045 ,

PubMed:[25968143](#)).

Cellular Location

Nucleus {ECO:0000250|UniProtKB:P35637}. Note=Displays a punctate pattern inside the nucleus and is excluded from nucleoli.
{ECO:0000250|UniProtKB:P35637}

Images

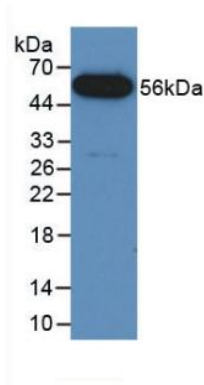


Figure. Western Blot; Sample: Recombinant FUS, Mouse.

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