

#### **Anti-FUS / TLS Antibody**

Rabbit Anti Human Polyclonal Antibody Catalog # ALS17980

### **Specification**

## **Anti-FUS / TLS Antibody - Product Information**

Application WB, IHC-P, E

Primary Accession <u>P35637</u>

Predicted Human, Mouse Host Rabbit

Clonality Polyclonal

Isotype IgG
Calculated MW 53426

## **Anti-FUS / TLS Antibody - 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.

## **Anti-FUS / TLS Antibody - Protein Information**

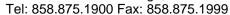
Name FUS

**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:<a href="http://www.uniprot.org/citations/27731383" target="\_blank">27731383</a>). 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:<a href="http://www.uniprot.org/citations/26124092" target="\_blank">26124092</a>). Binds also its own pre- mRNA and autoregulates its expression; this autoregulation mechanism is mediated by







non-sense-mediated decay (PubMed:<a href="http://www.uniprot.org/citations/24204307" target=" blank">24204307</a>). Plays a role in DNA repair mechanisms by promoting D-loop formation and homologous recombination during DNA double-strand break repair (PubMed: <a href="http://www.uniprot.org/citations/10567410" target="\_blank">10567410</a>). 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.

### **Anti-FUS / TLS Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

**Anti-FUS / TLS Antibody - Images**