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FUS / TLS Antibody
Rabbit mAb
Catalog # AP91020

Specification

FUS / TLS Antibody - Product Information

Application	**WB, IHC, FC, ICC**
Primary Accession	P35637
Reactivity	**Rat**
Clonality	**Monoclonal**

Other Names
FUS; ALS6; CHOP; FUS-CHOP; FUS1; Fused in sarcoma; HnRNPP2; Oncogene TLS; ETM4; Fus-like protein; Oncogene FUS; POMP75;

Isotype	**Rabbit IgG**
Host	**Rabbit**
Calculated MW	**53426 Da**

FUS / TLS Antibody - Additional Information

Dilution	**WB~~1:1000 IHC~~1:100~500 FC~~1:10~50 ICC~~N/A**
Purification	**Affinity-chromatography**
Immunogen	**A synthesized peptide derived from human FUS / TLS**
Description	**FUS/TLS (fused in sarcoma/translocated in liposarcoma) was initially identified by investigators as a component of fusion proteins found in a variety of cancers such as myxoid liposarcoma, acute myeloid leukemia, and Ewing's tumor.**
Storage Condition and Buffer	**Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.**

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: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.

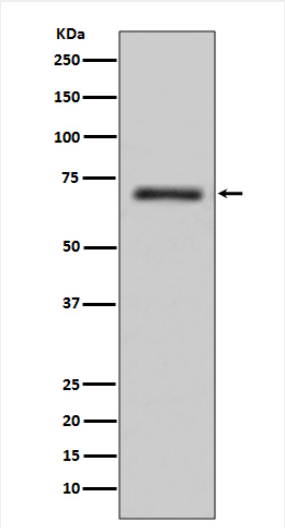
Tissue Location
Ubiquitous.

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
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

FUS / TLS Antibody - Images



Western blot analysis of FUS / TLS expression in K562 cell lysate.