

FUS Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP10187b**Specification**

FUS Antibody (C-term) Blocking peptide - Product Information

Primary Accession [P35637](#)
Other Accession [NP_001164105.1](#), [NP_004951.1](#)

FUS Antibody (C-term) Blocking peptide - Additional Information

Gene ID 2521

Other Names

RNA-binding protein FUS, 75 kDa DNA-pairing protein, Oncogene FUS, Oncogene TLS, POMp75, Translocated in liposarcoma protein, FUS, TLS

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

FUS Antibody (C-term) Blocking peptide - 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 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). Binds also 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 Antibody (C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

FUS Antibody (C-term) Blocking peptide - Images**FUS Antibody (C-term) Blocking peptide - Background**

This gene encodes a multifunctional protein component of the heterogeneous nuclear ribonucleoprotein (hnRNP) complex. The hnRNP complex is involved in pre-mRNA splicing and the export of fully processed mRNA to the cytoplasm. This protein belongs to the FET family of RNA-binding proteins which have been implicated in cellular processes that include regulation of gene expression, maintenance of genomic integrity and mRNA/microRNA processing. Alternative splicing results in multiple transcript variants. Defects in this gene result in amyotrophic lateral sclerosis type 6.

FUS Antibody (C-term) Blocking peptide - References

Kim, S.H., et al. J. Biol. Chem. 285(44):34097-34105(2010) Mackenzie, I.R., et al. Lancet Neurol 9(10):995-1007(2010) Yan, J., et al. Neurology 75(9):807-814(2010) Waibel, S., et al. Neurology 75(9):815-817(2010) Baumer, D., et al. Neurology 75(7):611-618(2010)