

Active Recombinant Full Length Human FUS Protein, C-Flag-tagged

Cat. No. FUS-10HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human FUS Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	Transmission electron microscopy Co-immunoprecipitation In vitro kinase assay inhibitor
Molecular Mass	53.2 kDa

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AA Sequence

MASNDYTQQATQSYGAYPTQPGQGYSQQSSQPYGQQSYSGYSQSTDTSGYGQS
 SYSSYGQSQNTGYGTQS TPQGYGSTGGYGSSQSSQSSYGQQSSYPGYGQQPAP
 SSTSGSYGSSSSQSSSYGQPQSGSYSQQPSYGGQQ QSYGQQQSYNPPQGYGQQ
 NQYNSSSGGGGGGGGGGNYGQDQSSMSSGGGSGGGYGNQDQSGGGGSGGYG
 Q QDRGGRGRGGSGGGGGGGGGGYNRSSGGYEPRGRGGGRGGRMGGSDR
 GGFNKFGGPRDQGSRHDSQD NSDNNTIFVQGLGENVTIESVADYFKQIGIIKTNKK
 TGQPMINLYTDRETGKLKGEATVSFDDPPSAKAA IDWFDGKEFSGNPIKVSFATRR
 ADFNRGGGNGRGGGRGGPMGRGGYGGGGSGGGGRGGFSGGGGGGGGQ QR
 AGDWKCPNPTCENMNFSWRNECNQCKAPKPDGPGGGPGGSHMGGNYGDDRRG
 GRGGYDRGGYRGRGGD
 RGGFRGGRGGGDRGGFGPGKMDSRGEHRQDRRERPYTRTRPLEQKLISEEDLAA
 NDILDYKDDDDKV

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining.

Stability

Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Storage

Store at -80 centigrade.

Concentration

>50 ug/mL as determined by microplate BCA method.

Preparation

Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Protein Families

Druggable Genome, Stem cell - Pluripotency

Full Length

Full L.

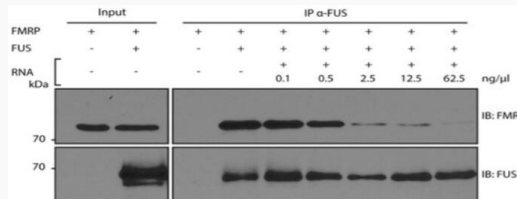
GENE INFORMATION

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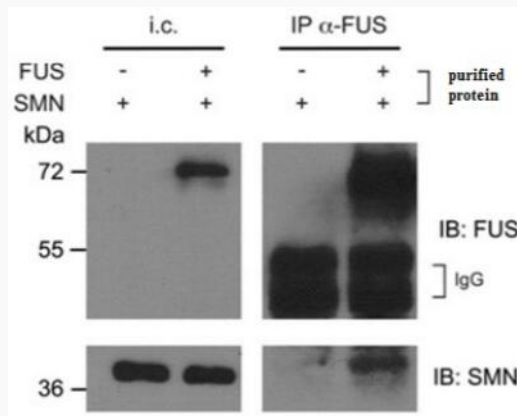
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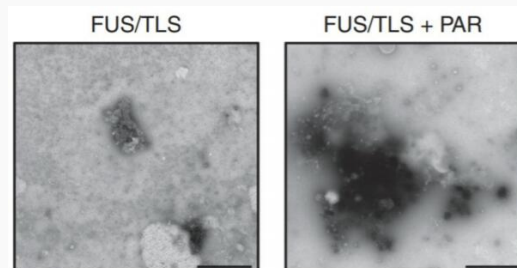
Gene Name	FUS FUS RNA binding protein [Homo sapiens (human)]
Official Symbol	FUS
Synonyms	TLS; ALS6; ETM4; FUS1; POMP75; altFUS; HNRNPP2
Gene ID	2521
mRNA Refseq	NM_004960.4
Protein Refseq	NP_004951.1
MIM	137070
UniProt ID	P35637



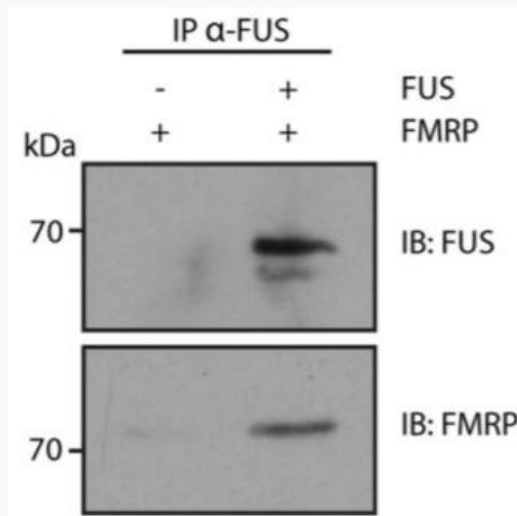
Recombinant FMRP and FUS proteins were mixed and RNA was added in increasing concentrations. Protein mixtures were incubated and immunoprecipitated with anti-FUS antibody and subjected to immunoblotting with the indicated antibodies.



Purified FUS and SMN proteins were mixed and immunoprecipitated with IgG (control) or antiFUS antibodies. Immunoprecipitates were analyzed with the indicated antibodies.

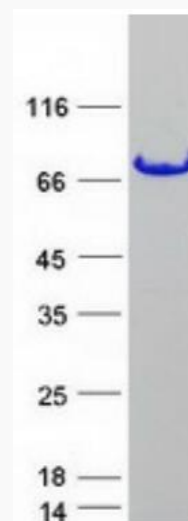


Full-length recombinant FUS/TLS was incubated at 37 C for 24 hours with or without sub-stoichiometric amounts of purified PAR. Protein aggregates were analyzed by transmission electron microscopy.



Characterization of FMRP-FUS binding. Recombinant FUS and FMRP proteins were mixed and immunoprecipitated with anti-FUS antibodies. Samples were analyzed in Western blot with the indicated antibodies.

SDS-PAGE



Coomassie blue staining of purified FUS protein.

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