

FUS/TLS Recombinant monoclonal antibody

Catalog Number: 87839-1-RR

Basic Information

Catalog Number:

87839-1-RR

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG2150

GenBank Accession Number:

BC026062

GeneID (NCBI):

2521

UNIPROT ID:

P35637

Full Name:

fusion (involved in t(12;16) in malignant liposarcoma)

Calculated MW:

75 kDa

Observed MW:

68-75 kDa

Purification Method:

Protein A purification

CloneNo.:

253392E4

Recommended Dilutions:

WB: 1:5000-1:50000

IF/ICC: 1:500-1:2000

Applications

Tested Applications:

WB, IF/ICC, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : HEK-293 cells, mouse brain tissue, HepG2 cells, Jurkat cells, HeLa cells, Neuro-2a cells, rat brain tissue

IF/ICC : HeLa cells,

Background Information

FUS (also named TLS and POMp75) belongs to the RRM TET family. FUS may play a role in the maintenance of genomic integrity; it binds both single-stranded and double-stranded DNA and promotes ATP-independent annealing of complementary single-stranded DNAs and D-loop formation in superhelical double-stranded DNA. FUS is also an RNA-binding protein, and its links to neurodegenerative disease proffer the intriguing possibility that altered RNA metabolism or RNA processing may underlie or contribute to neuron degeneration[PMID: 22640227]. FUS may be a cause of angiomatoid fibrous histiocytoma (AFH) and is implicated in certain forms of amyotrophic lateral sclerosis (ALS) and frontotemporal dementias (FTDs) such as frontotemporal lobar dementia with ubiquitin inclusions (FTLD-U)[PMID: 22640227]. Multiple phosphorylation on the N terminus of FUS caused that FUS was detected 68-75 kDa (PMID:24899704).

Storage

Storage:

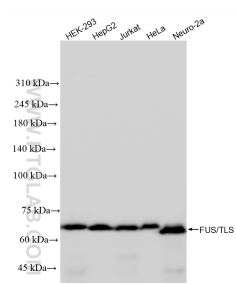
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

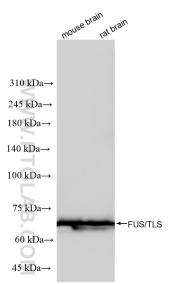
PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

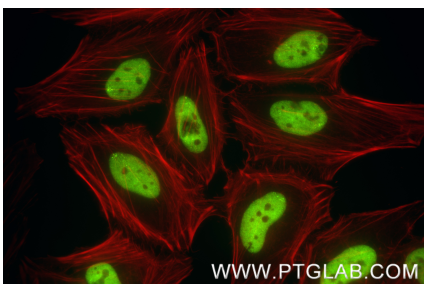
Selected Validation Data



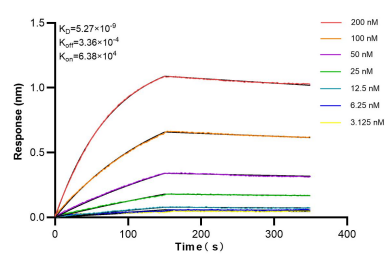
Various lysates were subjected to SDS PAGE followed by western blot with 87839-1-RR (FUS/TLS antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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Immunofluorescent analysis of (4% PFA) fixed HeLa cells using FUS/TLS antibody (87839-1-RR, Clone: 253392E4) at dilution of 1:1000 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Biolayer interferometry (BLI) kinetic assays of 87839-1-RR against Human FUS/TLS were performed. The affinity constant is 5.27 nM.