

For Research Use Only

FUS/TLS Monoclonal antibody, PBS Only



Catalog Number: 68262-1-PBS

Featured Product

Basic Information

Catalog Number:

68262-1-PBS

Size:

100ug, Concentration: 1 mg/ml by Nanodrop;

Source:

Mouse

Isotype:

IgG1

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:

53, 68-75 kDa

Purification Method:

Protein G purification

CloneNo.:

1B4F8

Applications

Tested Applications:

WB, IF, FC, IHC, ELISA

Species Specificity:

Human, mouse, rat

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 only

Aliquoting is unnecessary for -20°C storage

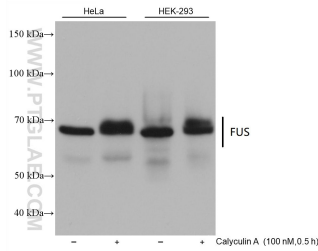
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

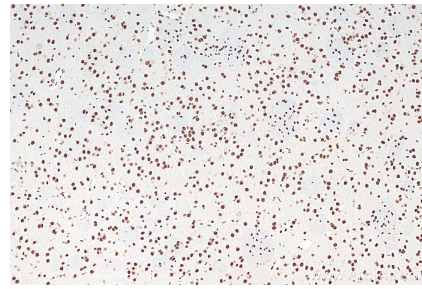
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

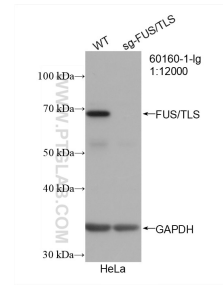
Selected Validation Data



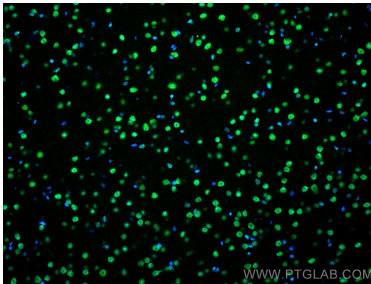
HeLa cells were subjected to SDS PAGE followed by western blot with 68262-1-Ig (FUS/TLS antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68262-1-PBS in a different storage buffer formulation.



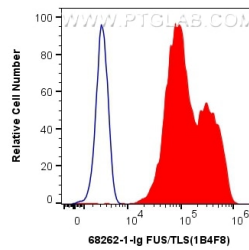
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 68262-1-Ig (FUS/TLS antibody) at dilution of 1:10000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 68262-1-PBS in a different storage buffer formulation.



WB result of FUS/TLS antibody (68262-1-Ig; 1:10000; room temperature for 1.5 hours) with negative control and FUS/TLS knockout HeLa cells. This data was developed using the same antibody clone with 68262-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using FUS/TLS antibody (68262-1-Ig, Clone: 1B4F8) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 68262-1-PBS in a different storage buffer formulation.



1X10⁶ HEK-293T cells were intracellularly stained with 0.4 ug Anti-Human FUS/TLS (68262-1-Ig, Clone:1B4F8) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG1 Isotype Control (MOPC-21) (65124-1-Ig, Clone: MOPC-21) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011). This data was developed using the same antibody clone with 68262-1-PBS in a