

For Research Use Only

FUS/TLS Monoclonal antibody

Catalog Number: 68262-1-Ig **Featured Product**



Basic Information

Catalog Number: 68262-1-Ig	GenBank Accession Number: BC026062	Purification Method: Protein G purification
Size: 150ul , Concentration: 500 µg/mL by Nanodrop;	GeneID (NCBI): 2521	CloneNo.: 1B4F8
Source: Mouse	Full Name: fusion (involved in t(12;16) in malignant liposarcoma)	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:5000-1:20000 IF 1:200-1:800
Isotype: IgG1	Calculated MW: 75 kDa	
Immunogen Catalog Number: AG2150	Observed MW: 53 kDa, 68-75 kDa	

Applications

Tested Applications:
IF, IHC, WB, ELISA

Species Specificity:
Human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

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

IHC : rat brain tissue, human ovary tumor tissue, human colon tissue, mouse brain tissue, mouse cerebellum tissue

IF : mouse brain tissue, mouse cerebellum tissue

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 pH 7.3.

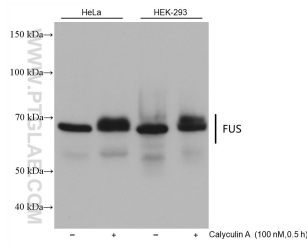
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

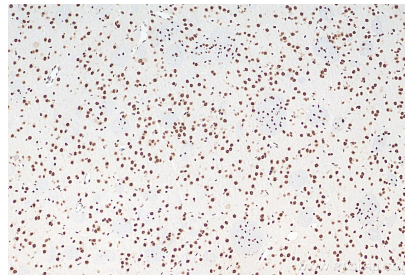
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

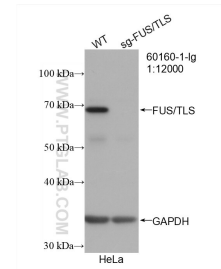
Selected Validation Data



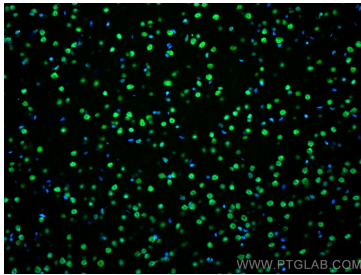
HeLa cells were subjected to SDS PAGE followed by western blot with 68262-1-Ig (FUS/TLS antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



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).



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.



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).