

For Research Use Only

# FUS/TLS Polyclonal antibody

Catalog Number: 11570-1-AP

Featured Product

116 Publications



## Basic Information

### Catalog Number:

11570-1-AP

### Size:

150ul, Concentration: 600 µg/ml by Nanodrop;

### 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:

Antigen affinity purification

### Recommended Dilutions:

WB 1:5000-1:50000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF 1:50-1:500

## Applications

### Tested Applications:

WB, IP, IF, FC, IHC, ELISA

### Cited Applications:

WB, IP, IF, RIP, IHC, CoIP, ChIP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, chicken, rat, mouse

**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:** HEK-293 cells, HeLa cells, HepG2 cells, Jurkat cells, K-562 cells, SH-SY5Y cells, mouse brain tissue, rat brain tissue

**IP:** K-562 cells,

**IHC:** mouse brain tissue, human ovary tumor tissue, rat brain tissue, human breast cancer tissue

**IF:** mouse colon tissue, HepG2 cells, 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]. This antibody is a rabbit polyclonal antibody raised against an internal region of human FUS. FUS was detected double bands of 68-74 kDa (PMID:31519807).

## Notable Publications

Author	Pubmed ID	Journal	Application
Michael Tibshirani	25274782	Hum Mol Genet	IF
Binbin Zhou	36169888	Mol Neurobiol	WB
Shan Xiu X	20736350	Proc Natl Acad Sci U S A	IF

## 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

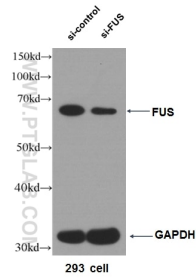
For technical support and original validation data for this product please contact:

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

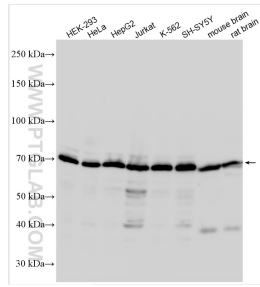
E: proteintech@ptglab.com  
W: ptglab.com

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

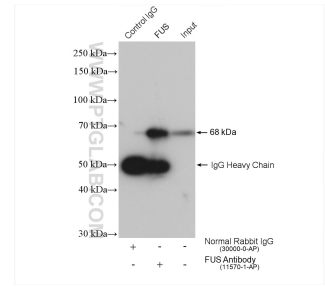
## Selected Validation Data



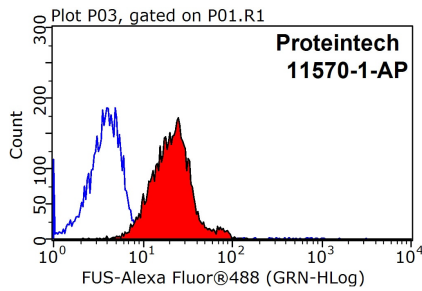
WB result of FUS antibody (11570-1-AP, 1:5000) with si-Control and si-FUS transfected HEK 293 cells.



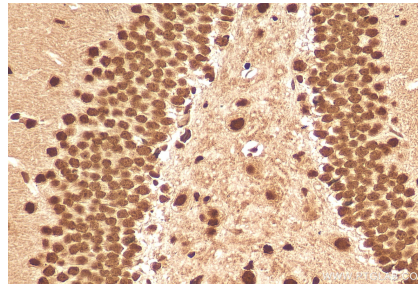
Various lysates were subjected to SDS PAGE followed by western blot with 11570-1-AP (FUS/TLS antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours.



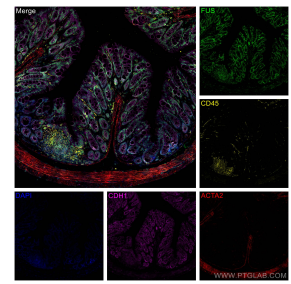
IP result of anti-FUS/TLS (IP:11570-1-AP, 4ug; Detection:11570-1-AP 1:2000) with K-562 cells lysate 1760 ug.



1X10<sup>6</sup> HeLa cells were stained with 0.2ug FUS/TLS antibody (11570-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 11570-1-AP (FUS/TLS antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse colon tissue using FUS/TLS antibody (11570-1-AP) at dilution of 1:200, CoraLite@594 smooth muscle actin antibody (CL594-14395, red), CD45 antibody (80297-1-RR, Clone: 6019, orange), E-cadherin antibody (20874-1-AP, Magenta).