

For Research Use Only

# FUS/TLS Polyclonal antibody

Catalog Number: 11570-1-AP

Featured Product

126 Publications



## Basic Information

### Catalog Number:

11570-1-AP

### Concentration:

600 ug/ml

### 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 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF-P 1:50-1:500

IF-Fro 1:200-1:800

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IF-P, IF-Fro, IP, ELISA

### Cited Applications:

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

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, chicken

**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-P**: mouse colon tissue, HepG2 cells, HeLa cells

**IF-Fro**: mouse brain tissue,

**IF/ICC**: 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, pH7.3

Aliquoting is unnecessary for -20°C storage

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

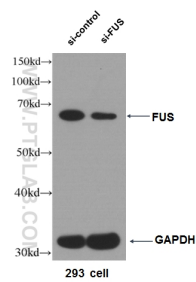
T: 4006900926

E: Proteintech-CN@ptglab.com

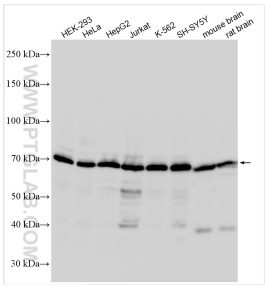
W: ptgcn.com

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

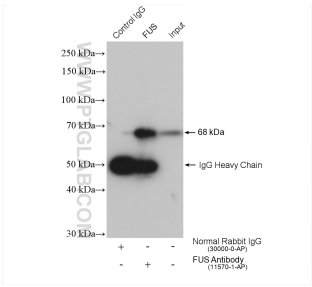
Selected Validation Data



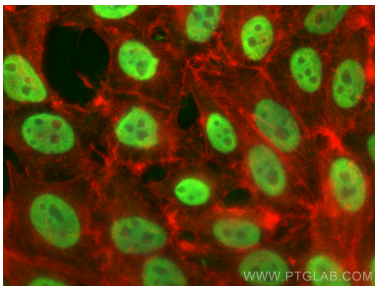
WB result of FUS antibody (11570-1-AP, 1:5000) with si-Control and si-FUS transfected HEK 293 cells.



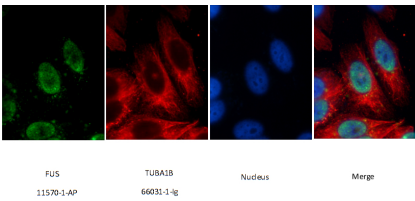
Various lysates were subjected to SDS PAGE followed by western blot with 11570-1-AP (FUS/TLS antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours.



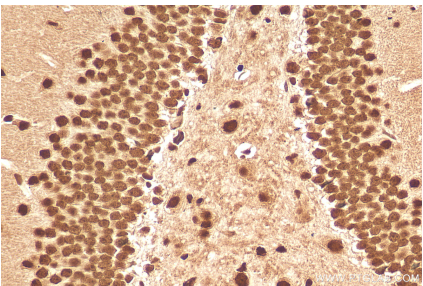
IP result of anti-FUS/TLS (IP:11570-1-AP, 4ug; Detection:11570-1-AP 1:2000) with K-562 cells lysate 1760 ug.



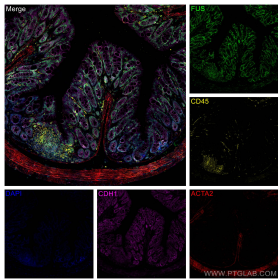
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using FUS/TLS antibody (11570-1-AP) at dilution of 1:200 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-phalloidin (red).



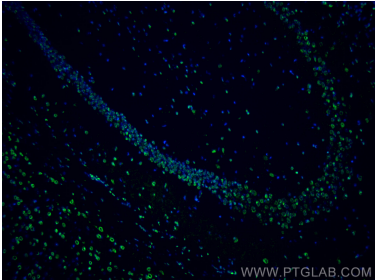
Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 11570-1-AP (FUS/TLS antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



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: 6O19, orange), E-cadherin antibody (20874-1-AP, Magenta).



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse brain tissue using FUS/TLS antibody (11570-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).