

For Research Use Only

FUS/TLS Polyclonal antibody

Catalog Number: 11570-1-AP

Featured Product

129 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: 1:50-1:500

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, mouse liver tissue

IF-Fro: rat 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:

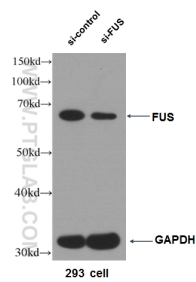
T: 4006900926

E: Proteintech-CN@ptglab.com

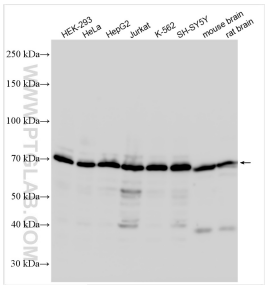
W: ptgcn.com

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

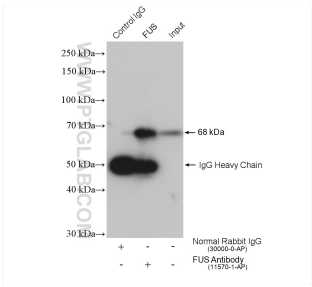
Selected Validation Data



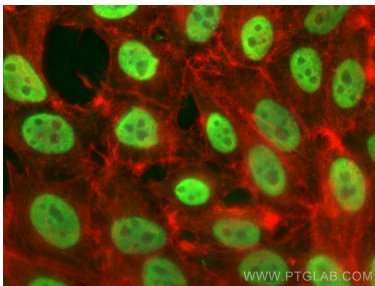
WB result of FUS antibody (11570-1-AP, 1:5000) with si-Control and si-FUS transfected HEK 293 cells.



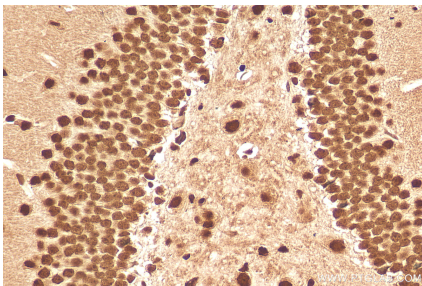
Various lysates were subjected to SDS PAGE followed by western blot with 11570-1-AP (FUS/TLS antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours.



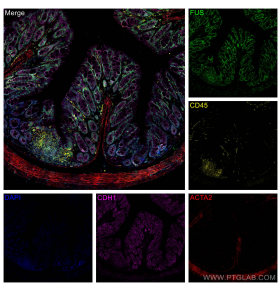
IP result of anti-FUS/TLS (IP:11570-1-AP, 4ug; Detection:11570-1-AP 1:2000) with K-562 cells lysate 1760 ug.



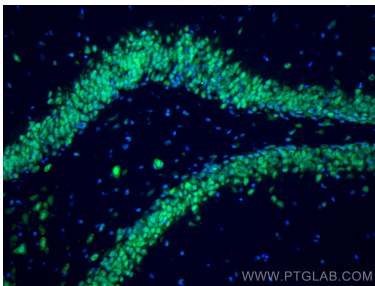
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using FUS/TLS antibody (11570-1-AP) at dilution of 1:200 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-phalloidin (red).



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).



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded rat brain tissue using FUS/TLS antibody (11570-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).