

For Research Use Only

FUS/TLS Polyclonal ANTIBODY



Catalog Number: 11570-1-AP

Featured Product

54 Publications

Basic Information

Catalog Number:
11570-1-AP

Size:
74 µg/150 µl

Source:
Rabbit

Isotype:
IgG

Purification Method:
Antigen affinity purification

Immunogen Catalog Number:
AG2150

GenBank Accession Number:
BC026062

GeneID (NCBI):
2521

Full Name:
fusion (involved in t(12;16) in malignant liposarcoma)

Calculated MW:
75 kDa

Observed MW:
68-75 kDa

Recommended Dilutions:

WB 1:1000-1:4000

IP 0.5-4.0 µg for IP and 1:500-1:2000 for WB

IHC 1:50-1:500

IF 1:50-1:500

Applications

Tested Applications:
FC, IF, IHC, IP, WB, ELISA

Cited Applications:
ChIP, IF, IHC, WB

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat

Note: 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, Jurkat cells, HL-60 cells, K-562 cells, SMMC-7721 cells, human kidney tissue, HepG2 cells, mouse brain tissue

IP : K-562 cells;

IHC : human breast cancer tissue; human ovary tumor tissue

IF : HepG2 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 prefer 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.

Notable Publications

Author	Pubmed ID	Journal	Application
Michael Tibshirani	25274782	Hum Mol Genet	IF
Haibo Wang	30206235	Nat Commun	IF
Yanbo Chen	27794540	Hum Mol Genet	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.1% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

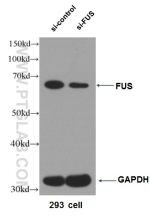
For technical support and original validation data for this product please contact:

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.

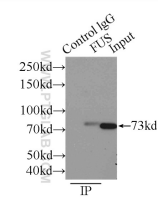
Selected Validation Data



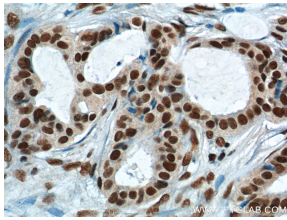
WB result of FUS antibody (11570-1-AP, 1:5000) with si-Control and si-FUS transfected HEK 293 cells.



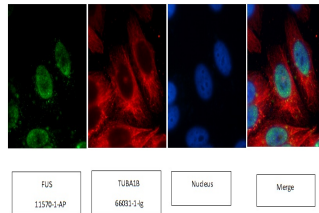
HEK-293 cells were subjected to SDS PAGE followed by western blot with 11570-1-AP (FUS/TLS Antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours



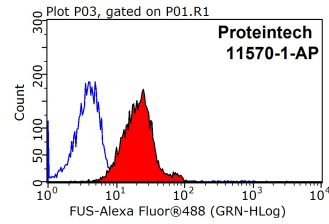
IP Result of anti-FUS (IP:11570-1-AP, 3ug; Detection: 11570-1-AP 1:1000) with K-562 cells lysate 4000ug.



Immunohistochemistry of paraffin-embedded human breast cancer tissue slide using 11570-1-AP (FUS/TLS Antibody) at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of (-20) 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)



1X10⁶ 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.