

For Research Use Only

# CoraLite®555-conjugated FUS/TLS Polyclonal antibody

Catalog Number: CL555-11570



## Basic Information

### Catalog Number:

CL555-11570

### Size:

100ul , Concentration: 1000 ug/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:

IF/ICC 1:50-1:500

### Excitation/Emission maxima wavelengths:

557 nm / 570 nm

## Applications

### Tested Applications:

IF/ICC, FC (Intra)

### Species Specificity:

human, mouse, rat

### Positive Controls:

IF/ICC : MCF-7 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.

## Storage

### Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

### Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

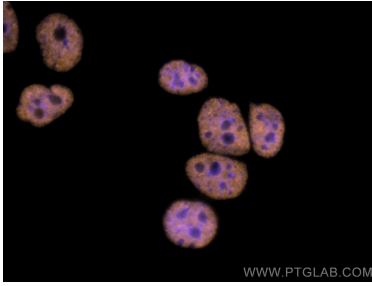
For technical support and original validation data for this product please contact:

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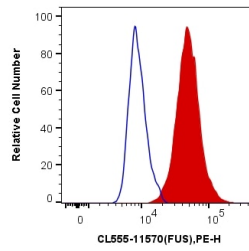
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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using CoraLite®555 FUS/TLS antibody (CL555-11570) at dilution of 1:200.



1X10<sup>6</sup> MCF-7 cells were intracellularly stained with 0.4 ug CoraLite®555 Anti-Human FUS/TLS (CL555-11570) (red), or 0.4 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).