

For Research Use Only

# CoraLite® Plus 488-conjugated FUS/TLS Monoclonal antibody



Catalog Number:CL488-68262

## Basic Information

|   |  |   |
|---|--|---|
| <b>Catalog Number:</b><br>CL488-68262                             | <b>GenBank Accession Number:</b><br>BC026062                                   | <b>Purification Method:</b><br>Protein G purification                 |
| <b>Size:</b><br>100ul , Concentration: 1000 µg/mL by<br>Nanodrop; | <b>GeneID (NCBI):</b><br>2521  | <b>CloneNo.:</b><br>1B4F8   |
| <b>Source:</b><br>Mouse   | <b>Full Name:</b><br>fusion (involved in t(12;16) in<br>malignant liposarcoma) | <b>Recommended Dilutions:</b><br>IF 1:50-1:500                        |
| <b>Isotype:</b><br>IgG1   | <b>Calculated MW:</b><br>75 kDa  | <b>Excitation/Emission maxima<br/>wavelengths:</b><br>493 nm / 522 nm |
| <b>Immunogen Catalog Number:</b><br>AG2150                        | <b>Observed MW:</b><br>68-75 kDa   |   |

## Applications

|  |   |
|--|---|
| <b>Tested Applications:</b><br>FC (Intra), IF    | <b>Positive Controls:</b><br>IF : mouse brain tissue, |
| <b>Species Specificity:</b><br>Human, mouse, rat |   |

## 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). Multiple phosphorylation on the N terminus of FUS caused that FUS was detected 68-75 kDa (PMID:24899704).

## Storage

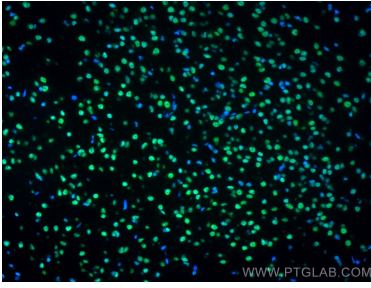
**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 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.

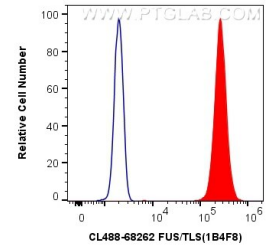
## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using CoraLite® Plus 488 FUS/TLS antibody (CL488-68262, Clone: 1B4F8) at dilution of 1:200.



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1X10<sup>6</sup> K-562 cells were intracellularly stained with 0.4 ug CoraLite® Plus 488 Anti-Human FUS/TLS (CL488-68262, Clone:1B4F8) (red), or 0.4 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).