

CoraLite® Plus 488-conjugated FUS/TLS Monoclonal antibody

Catalog Number: **CL488-68262**

Basic Information

Catalog Number:

CL488-68262

Size:

1000 µg/mL

Source:

Mouse

Isotype:

IgG1

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:

Protein G purification

CloneNo.:

1B4F8

Recommended Dilutions:

IF-P 1:50-1:500

Excitation/Emission maxima wavelengths:

493 nm / 522 nm

Applications

Tested Applications:

IF-P, FC (Intra)

Species Specificity:

human, mouse, rat

Positive Controls:

IF-P: mouse brain tissue,

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:

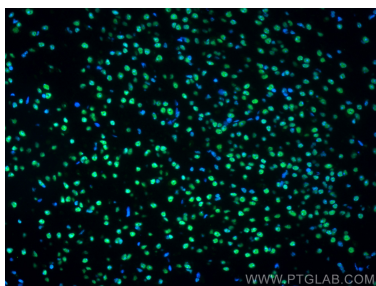
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

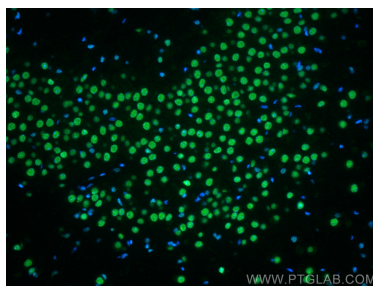
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

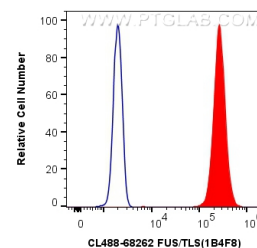
Selected Validation Data



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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1X10⁶ 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).