

CoraLite®594-conjugated TDP-43 (for IF/FC) Recombinant antibody

Catalog Number: **CL594-80002**

Basic Information

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| Catalog Number: CL594-80002 | GenBank Accession Number: BC001487 | Purification Method: Protein A purification |
| Size: 100ul , Concentration: 1000 µg/ml by Nanodrop; | GeneID (NCBI): 23435 | CloneNo.: 16A22 |
| Source: Rabbit | Full Name: TAR DNA binding protein | Recommended Dilutions: IF 1:50-1:500 |
| Isotype: IgG | Calculated MW: 43 kDa | Excitation/Emission maxima wavelengths: 588 nm / 604 nm |
| Immunogen Catalog Number: AG1231 | Observed MW: 43 kDa | |

Applications

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| Tested Applications: FC (Intra), IF | Positive Controls: IF : mouse brain tissue, |
| Species Specificity: Human, mouse, rat | |

Background Information

The TARDBP gene encodes the TDP-43 protein, initially found to repress HIV-1 transcription by binding TAR DNA. TDP-43 has since been shown to bind RNA as well as DNA, and have multiple functions in transcriptional repression, translational regulation and pre-mRNA splicing. For instance, it is reported to regulate alternate splicing of the CTFR gene. In 2006 Neumann et al. found that hyperphosphorylated, ubiquitinated and/or cleaved forms of TDP-43, collectively known as pathological TDP-43, play a major role in the disease mechanisms of ubiquitin-positive, tau- and alpha-synuclein-negative frontotemporal dementia (FTLD-U) and in amyotrophic lateral sclerosis (ALS).

Storage

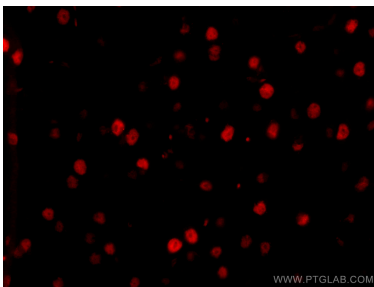
Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

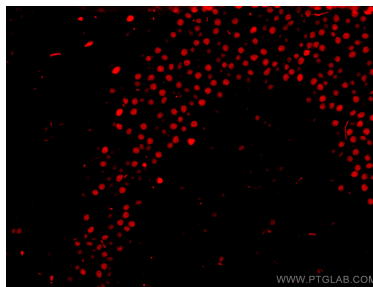
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

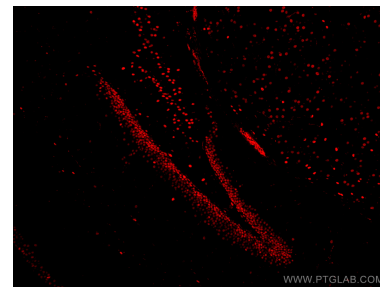
Selected Validation Data



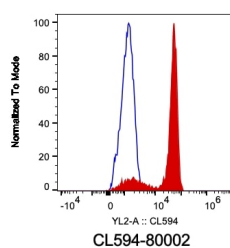
Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using CL594-80002 (TDP-43 (for IF/FC) antibody) at dilution of 1:100.



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1X10⁶ HeLa cells were stained with 0.2 ug CoraLite®594 Anti-Human TDP-43 (for IF/FC) (CL594-80002, Clone: 16A22) (red), or 0.2 ug CoraLite®594 Mouse IgG1 Isotype Control (CL594-66360, Clone: T1F8D3F10) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).