

For Research Use Only

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



Catalog Number:CL594-80002

## Basic Information

<b>Catalog Number:</b> CL594-80002	<b>GenBank Accession Number:</b> BC001487	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1000 µg/ml	<b>GeneID (NCBI):</b> 23435	<b>CloneNo.:</b> 16A22
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q13148	<b>Recommended Dilutions:</b> IF 1:50-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> TAR DNA binding protein	<b>Excitation/Emission maxima wavelengths:</b> 588 nm / 604 nm
<b>Immunogen Catalog Number:</b> AG1231	<b>Calculated MW:</b> 43 kDa	
	<b>Observed MW:</b> 43 kDa	

## Applications

<b>Tested Applications:</b> FC (Intra), IF/ICC	<b>Positive Controls:</b> IF : mouse brain tissue,
<b>Species Specificity:</b> 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

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

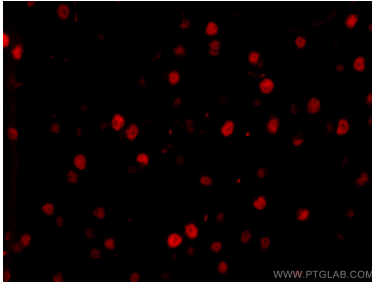
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

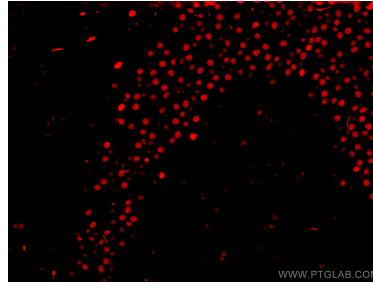
W: [ptgcn.com](http://ptgcn.com)

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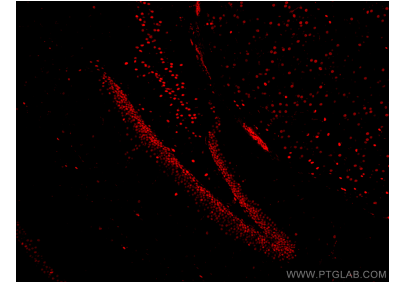
## Selected Validation Data



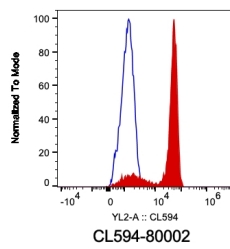
Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using CL594-80002 (TDP-43 (for IF/FC) antibody) at dilution of 1:100.



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$1 \times 10^6$  HeLa cells were stained with 0.2  $\mu$ g CoraLite®594 Anti-Human TDP-43 (for IF/FC) (CL594-80002, Clone: 16A22) (red), or 0.2  $\mu$ g CoraLite®594 Mouse IgG1 Isotype Control (CL594-66360, Clone: T1F8D3F10) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).