

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

Catalog Number: **CL594-80002**

Basic Information

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

Applications

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

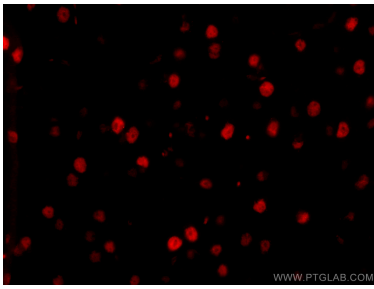
Background Information

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).

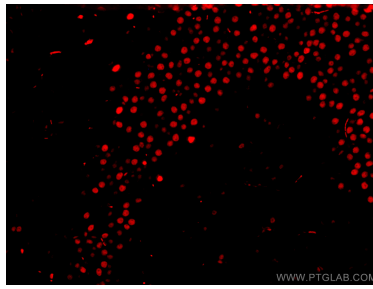
Storage

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

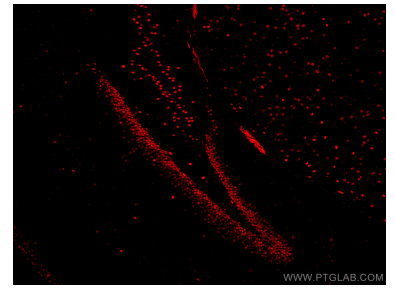
Selected Validation Data



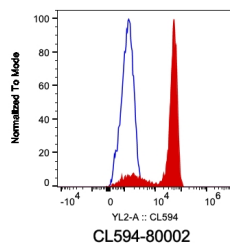
Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using CL594-80002 (TDP-43 (for IF/FC) antibody) at dilution of 1:100.



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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).