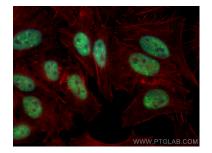
## For Research Use Only

## CoraLite® Plus 488-conjugated TDP-43 Polyclonal antibody Catalog Number:CL488-10782 Featured Product

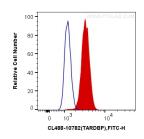
Basic Information	Catalog Number: CL488-10782	GenBank Accession Number: BC001487	Purification Method: Antigen affinity purification			
	Concentration: 1000 ug/ml	GenelD (NCBI): 23435	Recommended Dilutions: IF/ICC 1:50-1:500			
	Source: Rabbit Isotype: IgG	UNIPROT ID: Q13148 Full Name: TAR DNA binding protein Calculated MW: 43 kDa	Excitation/Emission maxima wavelengths: 493 nm / 522 nm			
				Observed MW: 48 kDa		
				Applications	Tested Applications: IF/ICC, FC (Intra)	Positive C
		IF/ICC : HepG2 cells, Species Specificity: human				
Background Informatior	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). Proteintech's 10782-2-AP antibody is a rabbit polyclonal antibody recognizing N-terminal TDP-43. It recognizes the intact 43 kDa protein as well as all posttranslationally modified and truncated forms in multiple applications. Various forms of TDP-43 exist, including 18-35 kDa of cleaved C-terminal fragments, 45-50 kDa phospho-protein, 55 kDa glycosylated form, 75 kDa hyperphosphorylated form, and 90-300 kDa cross-linked form. (17023659, 19823856, 21666678, 22193176) Recently TDP-43 has been reported to be overexpressed in triple negative breast cancer (TNBC) and it may be a potential target for TNBC diagnosis and drug design. <b>(29581274)</b>					
Storage	Storage: Store at -20°C. Avoid exposur Storage Buffer:	to light. Stable for one year after shipment. Proclin300, 0.5% BSA, pH 7.3. 20°C storage				

For technical support and original validation data for this product please contact: T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.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 HepG2 cells using Coralite® Plus 488 TDP-43 antibody (CL488-10782) at dilution of 1:200, CL594-Phalloidin (red).



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.2 ug CoraLite® Plus 488 Anti-Human TDP-43 (CL488-10782) (red), or 0.2 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).