

CoraLite® Plus 488-conjugated TDP-43 (C-terminal) Polyclonal antibody

Catalog Number: **CL488-12892****Featured Product**

Basic Information

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| Catalog Number: CL488-12892 | GenBank Accession Number: BC001487 | Purification Method: Antigen affinity purification |
| Size: 100ul , Concentration: 1000 µg/ml by Nanodrop; | GeneID (NCBI): 23435 | Recommended Dilutions: IF 1:50-1:500 |
| Source: Rabbit | Full Name: TAR DNA binding protein | Excitation/Emission maxima wavelengths: 493 nm / 522 nm |
| Isotype: IgG | Calculated MW: 43 kDa | |

Applications

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| Tested Applications: FC (Intra), IF | Positive Controls: IF : HeLa cells, |
| Species Specificity: human, mouse, rat | |

Background Information

Transactivation response (TAR), DNA-binding protein of 43 kDa (also known as TARDBP or TDP-43), was first isolated as a transcriptional inactivator binding to the TAR DNA element of the HIV-1 virus. Neumann et al. (2006) found that a hyperphosphorylated, ubiquitinated, and cleaved form of TARDBP, known as pathologic TDP-43, is the major component of the tau-negative and ubiquitin-positive inclusions that characterize amyotrophic lateral sclerosis (ALS) and the most common pathological subtype of frontotemporal lobar degeneration (FTLD-U). 12892-1-AP is a rabbit polyclonal antibody raised against the C-terminal amino acids of human TDP-43. This antibody recognizes the cleavage product of 20-30 kDa in addition to the native and phosphorylated forms of TDP-43. Immunohistochemical analyses of TDP-43 using this antibody detect both normal diffuse nuclear staining and insoluble inclusions in pathologic tissues. Various forms of TDP-43 exist, including 18-35 kDa of cleaved C-terminal fragments, 45-50 kDa phosphoprotein, 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. (29581274)

Storage

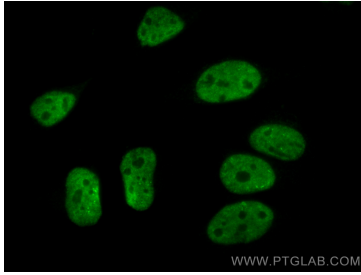
Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

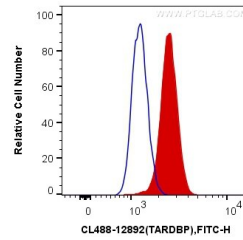
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using Coralite® Plus 488 TDP-43 (C-terminal) antibody (CL488-12892) at dilution of 1:200.



1X10⁶ HeLa cells were intracellularly stained with 0.2 ug Coralite® Plus 488 Anti-Human TDP-43 (C-terminal) (CL488-12892) (red), or 0.2 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).