

Nur für Forschungszwecke

TDP-43 Rekombinanter Antikörper

Katalog-Nr.:80002-1-RR

Vorgestelltes Produkt

1 Publikationen



Allgemeine Informationen

Katalog-Nr.: 80002-1-RR	GenBank-Zugangsnummer: BC001487	Reinigungsmethode: Protein-A-Reinigung
Größe: 100ul , Konzentration: 250 µg/ml von Nanodrop;	GeneID (NCBI): 23435	CloneNo.: 16A22
Wirt: Kaninchen	Vollständiger Name: TAR DNA binding protein	Empfohlene Verdünnungen: WB 1:5000-1:50000 IF 1:50-1:500
Isotyp: IgG	Berechnete Masse: 43 kDa	
Immunogen Katalognummer: AG1231	Beobachtete Masse: 43 kDa	

Anwendungen

Geprüfte Anwendungen:

FC, IF, IP, WB, ELISA

In Publikationen genannte Anwendungen:

IF, WB

Getestete Reaktivität:

Human, Maus, Ratte

Zitierte Arten:

Maus

Positivkontrollen:

WB : HeLa-Zellen, C6-Zellen, K-562-Zellen, Neuro-2a-Zellen

IF : SH-SY5Y-Zellen, HeLa-Zellen, HepG2-Zellen, Rattenhirngewebe

Hintergrundinformationen

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 CTRF 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 80002-1-RR is a rabbit recombinant TDP-43 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. (PMID: 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. (PMID: 29581274)

80002-1-RR antibody works well in IF experiment.

Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Shi-Shi Jiang	36926731	Neural Regen Res	WB,IF

Lagerung

Lagerungsbedingungen:

Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil

Lagerungspuffer:

PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.

Aliquotieren ist nicht notwendig bei -20°C Lagerung

*** 20ul-Größen enthalten 0.1% BSA

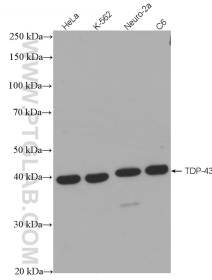
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

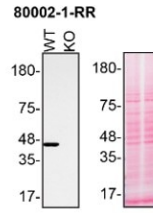
E: proteintech@ptglab.com
W: ptglab.com

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

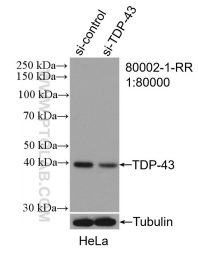
Ausgewählte Validierungsdaten



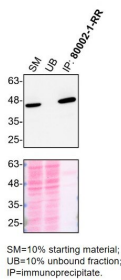
Various cell lysates were subjected to SDS PAGE followed by western blot with 80002-1-RR (TDP-43 antibody) at dilution of 1:12000 incubated at room temperature for 1.5 hours.



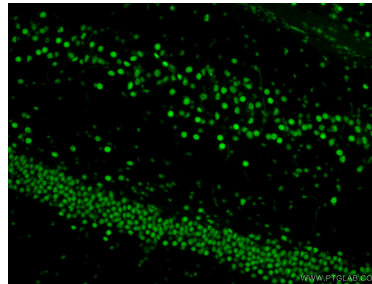
HAP1 (WT and TARDBP KO) lysates prepared with NP-40 buffer, 50 µg protein loaded. 80002-1-RR incubated at 1:1000 at 4°C overnight in 5% milk in TBST. Ponceau stained transfers shown on right. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency.



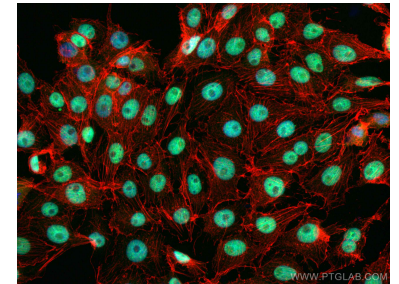
WB result of TDP-43 antibody (80002-1-RR; 1:80000; incubated at room temperature for 1.5 hours) with sh-Control and sh-TDP-43 transfected HeLa cells.



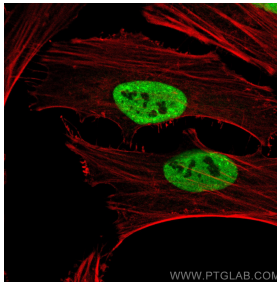
HAP1 lysates prepared and IP of TARDBP performed using 2.0 µg of 80002-1-RR coupled to protein A-Sepharose beads. The Ponceau stained transfers of each blot are shown. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency.



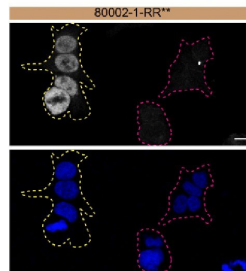
Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using 80002-1-RR (TDP-43 antibody) at dilution of 1:200 and CoraLite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



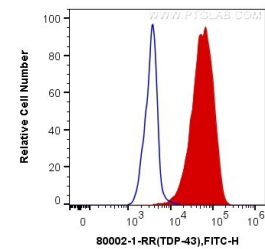
Immunofluorescent analysis of (4% PFA) fixed SH-SY5Y cells using TDP-43 antibody (80002-1-RR, Clone: 16A22) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Red: staining with CoraLite555-Phalloidin.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using TDP-43 antibody (80002-1-RR, Clone: 16A22) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



HAP1 WT cells (yellow outline) and TARDBP KO cells (red outline) labelled with a green or a far red fluorescence dye, respectively. Cells fixed with 4% PFA and stained with 80002-1-RR at 1:200 plus DAPI. Bars = 10 µm. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency.



1X10⁶ HeLa cells were intracellularly stained with 0.4 µg Anti-Human TDP-43 (for IF/FC) (80002-1-RR, Clone:16A22) and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 µg Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).