

À des fins de recherche uniquement

Anticorps Recombinant de lapin anti-TDP-43



Numéro de catalogue: 80001-1-RR

Phare

1 Publications

Informations de base

Numéro de catalogue: 80001-1-RR	Numéro d'acquisition GenBank: BC001487	Méthode de purification: Purification par protéine A
Taille: 100ul, Concentration: 250 µg/ml by Nanodrop;	Identification du gène (NCBI): 23435	CloneNo.: 11N20
Hôte: Lapin	Nom complet: TAR DNA binding protein	Dilutions recommandées: WB 1:5000-1:50000 IHC 1:500-1:4000 IF 1:300-1:1200
Isotype: IgG	MW calculé: 43 kDa	
	MW observés: 43 kDa	

Applications

Applications testées:
FC, IF, IHC, WB, ELISA

Demandes citées:
IF, IP, WB

Spécificité de l'espèce:
Humain, rat, souris

Espèces citées:
Humain

Remarque-IHC: il est suggéré de démasquer l'antigène avec un tampon de TE buffer pH 9,0; (*) À défaut, le démasquage de l'antigène peut être effectué avec un tampon citrate pH 6,0.

Contrôles positifs:

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

IHC : tissu de gliome humain, cortex frontal de DLFT-TDP de type B, lames de moelle épinière de patients atteints de SLA, tissu cérébral de rat, tissu cérébral de souris

IF : tissu cérébral de rat, HAP1 cells

Informations générales

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 80001-1-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).

80001-1-RR can be used in WB, IHC, IHF. For the ICC (IF with cells) experiment, the results will be better with ethanol fixed cell and dilution 1:50 or 1:100. Another antibody with CatNo. 80002-1-RR is recommended for IF or ICC experiment.

Publications notables

Autrice	Pubmed ID	Journal	Application
Donovan Worrall	37359785	F1000Res	WB,IP,IF

Stockage

Stockage:

Stocker à -20°C. Stable pendant un an après l'expédition.

Tampon de stockage:

PBS avec azoture de sodium à 0,02 % et glycérol à 50 % pH 7,3

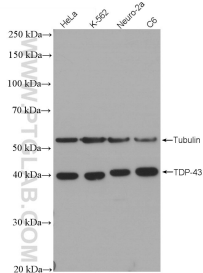
L'aliquotage n'est pas nécessaire pour le stockage à -20C

*** Les 20ul contiennent 0,1% de BSA.

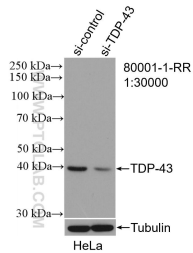
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

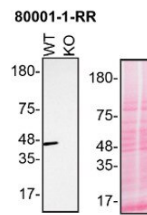
Données de validation sélectionnées



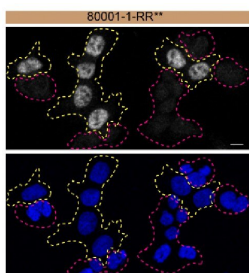
Various cell lysates were subjected to SDS PAGE followed by western blot with 80001-1-RR (TDP43 antibody) at dilution of 1:35000 incubated at room temperature for 1.5 hours.



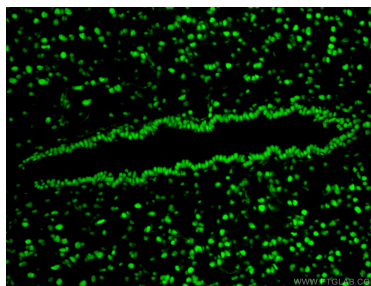
WB result of TDP-43 antibody (80001-1-RR; 1:30000; incubated at room temperature for 1.5 hours) with sh-Control and sh-TDP-43 transfected HeLa cells.



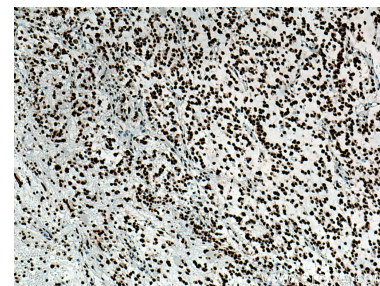
HAP1 (WT and TARDBP KO) lysates prepared with NP-40 buffer, 50 µg protein loaded. 80001-1-RR incubated at 1:1000 at 4°C overnight in 5% milk in TBST. Ponceau stained transfers shown on right. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency.



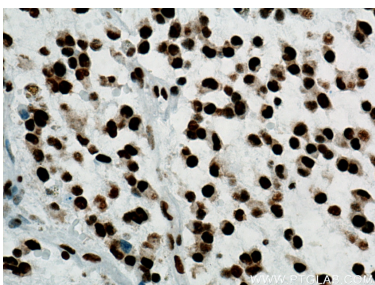
HAP1 WT cells (yellow outline) and TARDBP KO cells (red outline) labelled with a green or a far red fluorescence dye, respectively. Cells fixed with 4% PFA and stained with 80001-1-RR at 1:400 plus DAPI. Bars = 10 µm. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency.



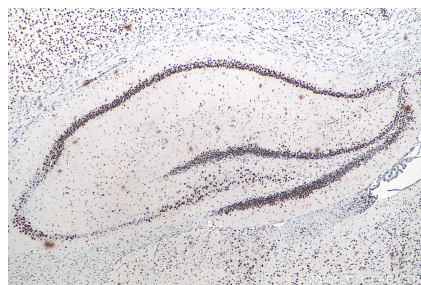
Immunofluorescent analysis of (4% PFA) fixed rat brain tissue using 80001-1-RR (TDP-43 antibody) at dilution of 1:150 and CoraLite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



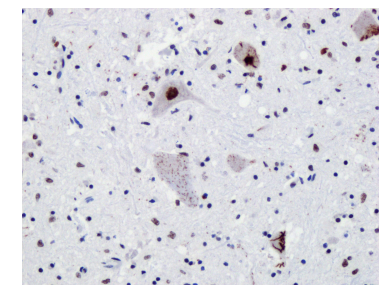
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 80001-1-RR (TDP-43 antibody) at dilution of 1:1500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



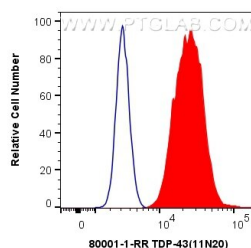
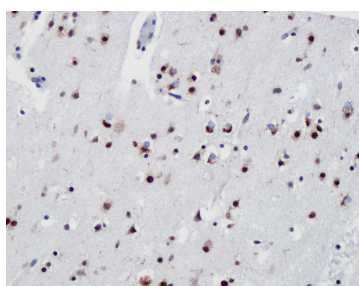
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 80001-1-RR (TDP-43 antibody) at dilution of 1:1500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 80001-1-RR (TDP-43 antibody) at dilution of 1:2000 (under 4x lens).



IHC results of TDP43 rabbit recombinant antibody (80001-1-RR, 1:20000) with the spinal cord slides from ALS patients. IHC experiment was done with Ventana automatic staining system and Optiview DAB detection kit with heat-induced epitope retrieval (boiling for 32 min in Tris-EDTA based solution CC1 buffer, Ventana). Fig from the lab of Dr. Neumann.



IHC results of TDP43 rabbit recombinant antibody (80001-1-RR, 1:20000) with the frontal cortex from FTLD-TDP type B patients. IHC experiment was done with Ventana automatic staining system and Optiview DAB detection kit with heat-induced epitope retrieval (boiling for 32 min in Tris-EDTA based solution CC1 buffer, Ventana). Fig from the lab of Dr. Neumann.

1X10⁶ HeLa cells were intracellularly stained with 0.4 ug Anti-Human TDP-43 (80001-1-RR, Clone:11N20) and CoraLite[®]488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).