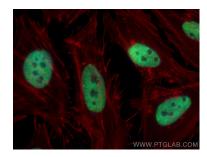
For Research Use Only				
TDP-43 (C-terr	ninal) Polyo	clona	l	proteintech®
antibody				Antibodies   ELISA kits   Proteins www.ptglab.com
Catalog Number:12892-1-AP	Featured Product	220 Publi	cations	
Basic Information	Catalog Number: 12892-1-AP Size: 650 µ g/ml Source: Rabbit Isotype: IgG	BC001487 GeneID (NC 23435 UNIPROT II Q13148 Full Name:	): nding protein MW: 1W:	Purification Method: Antigen affinity purification Recommended Dilutions: WB 1:500-1:5000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:500-1:2000 IF 1:2000-1:8000
Applications	Tested Applications:Positive Controls:WB, IP, IF/ICC,IF-Fro, IHC, ELISAWB : A549 cells, mouse brain tissue, HeLa cells, C6Cited Applications:cellsWB, IP, IF, IHC, CoIP, chIPIP : HeLa cells, mouse brain tissueSpecies Specificity:IHC : mouse brain tissue, human gliomas tissuehuman, mouse, ratIHC : mouse brain tissue, human gliomas tissueCited Species:IF : HeLa cells, mouse brain tissue, Neuro-2a cellshuman, chicken, rat, mouse, monkey, zebrafish, DrosophilaIF : HeLa cells, mouse brain tissue, Neuro-2a cellsNote-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0Hermatively, antigen			
Background Information	Transactivation response (TAR), DNA-binding protein of 43 kDa (also known as TARDBP or TDP-43), was first isolate as a transcriptional inactivator binding to the TAR DNA element of the HIV-1 virus. Neumann et al. (2006) found the 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-termina fragments, 45-50 kDa phosphoprotein, 55 kDa glycosylated form, 75 kDa hyperphosphorylated form, and 90-300 kB 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)			
Notable Publications		Pubmed ID 36171642	Journal Brain	Application IHC
		25270903 34580300	Neuroscience Nat Commun	IHC
Storage	Storage: Store at -20°C. Stable for one year Storage Buffer: PBS with 0.02% sodium azide and Aliquoting is unnecessary for -20°	l 50% glycerol p		
For technical support and original validation dat T: 4006900926 E: Proteintech-CN(	a for this product please contact:			is exclusively available under Proteintech and is not available to purchase from any acturer.

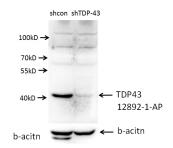
## Selected Validation Data



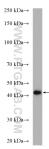
Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 12892-1-AP (TDP-43 (C-terminal) antibody at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



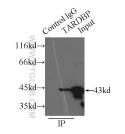
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using TDP-43 (C-terminal) antibody (12892-1-AP) at dilution of 1:4000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



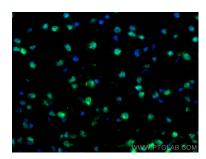
A549 cells (shcontrol and shRNA of TDP43) were subjected to SDS PAGE followed by western blot with 12892-1-AP (TDP43 antibody) at dilution of 1:1000.



HeLa cells were subjected to SDS PAGE followed by western blot with 12892-1-AP (TDP-43 (C-terminal) antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



IP result of anti-TDP-43 (C-terminal) (IP:12892-1-AP, 3ug; Detection:12892-1-AP 1:1000) with HeLa cells lysate 3000ug.



Immunofluorescent analysis ofun-fixed frozen OCT-embedded mouse brain tissue using TDP-43 (C-terminal) antibody (12892-1-AP) at dilution of 1:400 and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).