

POLYCLONAL ANTIBODY

For research use only, Not for diagnostic use

Catalog No. TIP-TD-P09

Anti TDP-43 C-terminus (405-414)

BACKGROUND

TDP-43, a heterogeneous nuclear ribonucleoprotein, was identified as a component of ubiquitin-positive and tau-negative inclusions observed in cases of frontotemporal lobar degeneration (FTLD-U) and amyotrophic lateral sclerosis (ALS). Immunochemical analyses using antibodies generated against phospho- and non-phosphopeptides of human TDP-43 revealed that abnormally phosphorylated full-length TDP-43 (45 kDa), C-terminal fragments (~25 kDa) and smearing substances are deposited as intracellular inclusions in affected regions of FTLD-U and ALS cases. These antibodies are powerful tools for biochemical and immunohistochemical analyses of neurodegenerative diseases and for evaluation of cellular or animal models of TDP-43 proteinopathy.

Product type	Primary antibody
Immunogen	CMDSKSSGWGM TDP-43 (405-414)
Raised in	Rabbit
Myeloma	-
Clone number	-
Isotype	-
Source	Serum
Purification	-
Form	Liquid. Antiserum with 0.05% NaN ₃ as a preservative.
Concentration	-
Volume	100 µl
Label	Unlabeled
Specificity	TDP-43
Cross reactivity	Human, Rat
Storage	Store below -20°C. (below -70°C for prolonged storage). Aliquot to avoid cycles of freeze/thaw.

Application notes Recommended dilutions

- **Western blotting:** 1/1000 - 1/5000
- **Immunohistochemistry:** 1/1000 - 1/10000
- **ELISA:** 1/1000 - 1/5000

Other applications have not been tested.
Optimal dilutions/concentrations should be determined by the end user.

References

- 1) Inukai Y, Nonaka T, Arai T, et al. Abnormal phosphorylation of Ser409/410 of TDP-43 in FTLD-U and ALS. FEBS Lett. 582, 2899-2904, 2008 PubMed: [18656473](#)

ANTIBODY CHARACTERIZATION

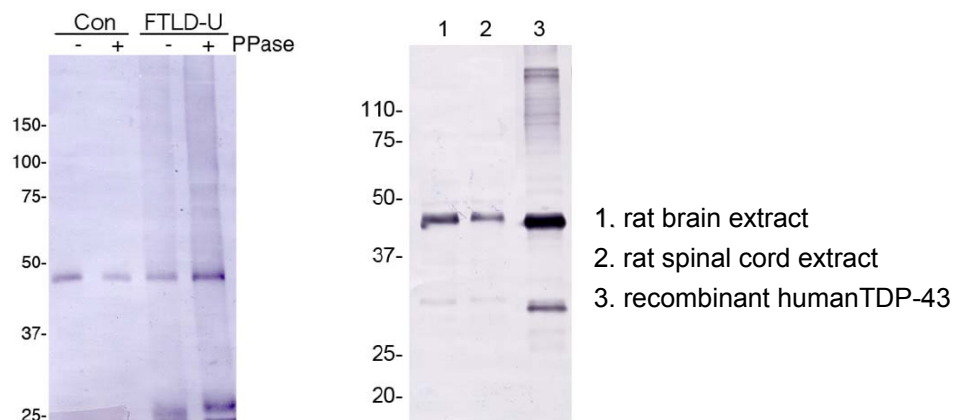


Figure 1 Immunoblot analyses with pAb TDP43-C(405-414)
 Predicted molecular weight: Full-length TDP-43 at 43 kDa.

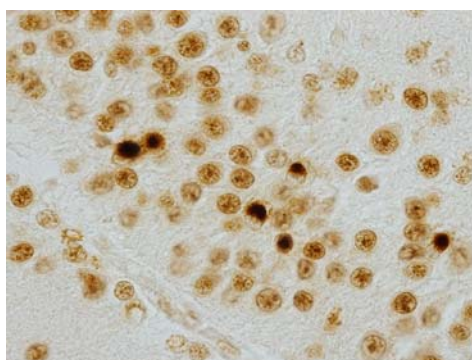


Figure 2 Immunohistochemistry of Nuclei and NCIs in dentate gyrus of FTLD-U

RELATED PRODUCTS:

Product Name	Quantity	Maker	Cat#
Anti TDP-43, phospho Ser409/410 (clone:11-9) Monoclonal Antibody	50 uL	CAC	TIP-PTD-M01
Anti TDP-43, phospho Ser409/410-1 Polyclonal Antibody	100 uL	CAC	TIP-PTD-P01
Anti TDP-43, phospho Ser409/410-2 Polyclonal Antibody	100 uL	CAC	TIP-PTD-P02
Anti TDP-43, phospho Ser409 Polyclonal Antibody	100 uL	CAC	TIP-PTD-P03
Anti TDP-43, phospho Ser410 Polyclonal Antibody	100 uL	CAC	TIP-PTD-P04
Anti TDP-43, phospho Ser403/404 Polyclonal Antibody	100 uL	CAC	TIP-PTD-P05
Anti TDP-43 N-terminus(3-12) Polyclonal Antibody	100 uL	CAC	TIP-TD-P07
Anti TDP-43 C-terminus(405-414) Polyclonal Antibody	100 uL	CAC	TIP-TD-P09

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