



POLYCLONAL ANTIBODY

For research use only. Not for clinical diagnosis.

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 antibodies
Host	Rabbit
Source	Serum
Form	Liquid
Volume	100 µl
Concentration	Antiserum with 0.05% NaN ₃ as a preservative.
Specificity	TDP-43
Antigen	CMSDKSSGWGM TDP-43 (405-414)
Isotype	

Application notes WB, IHC, ELISA

Recommended use

Recommended dilutions

Western blotting, 1/1,000 to 1/5,000

(Predicted molecular weight)

Full-length TDP-43 at 43 kDa.

Immunohistochemistry, 1/1,000 to 1/10,000

ELISA, 1/1,000 to 1/5,000

Optimal dilutions/concentrations should be determined by the end user.

Staining Pattern

Cross reactivity Human, Rat

Storage Store below -20°C (below -70°C for prolonged storage).

Aliquot to avoid cycles of freeze/thaw.

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

