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). Immunological 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: EYIRVTEDENC  TDP-43 (3-12)
Rased in: Rabbit
Myeloma: -
Clone number: -
Isotype: -
Source: Serum
Purification: -
Form: Liquid. Antiserum with 0.05% NaN₃ 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: -
**ANTIBODY CHARACTERIZATION**

**Figure 1** Immunoblot analyses with pAb TDP43-N(3-12)

Predicted molecular weight: Full-length TDP-43 at 43 kDa.

**Figure 2** Immunohistochemistry of skein-like inclusion in spinal cord of ALS

**RELATED PRODUCTS:**

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<th>Product Name</th>
<th>Quantity</th>
<th>Maker</th>
<th>Cat#</th>
</tr>
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<td>CAC</td>
<td>TIP-PTD-M01</td>
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