

For Research Use Only

# Phospho-TDP43 (Ser403/404) Polyclonal antibody

Catalog Number: 22310-1-AP



## Basic Information

### Catalog Number:

22310-1-AP

### Size:

100ul, Concentration: 233 µg/ml by  
Bradford method using BSA as the  
standard;

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

NM\_007375

### GeneID (NCBI):

23435

### UNIPROT ID:

Q13148

### Full Name:

TAR DNA binding protein

### Calculated MW:

43 kDa

### Purification Method:

Antigen affinity purification

## Applications

### Tested Applications:

ELISA

### Species Specificity:

human

## Background Information

Transactivation response (TAR) DNA-binding protein of 43 kDa (also known as TARDBP or TDP-43) was first isolated as a transcriptional inactivator binding to the TAR DNA element of the HIV-1 virus. Neumann et al. (2006) found that 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). 10782-2-AP is a rabbit polyclonal antibody recognizing 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. A variety of TDP-43-positive pathological inclusions have been found in FTLD-U (now referred to as FTLD-TDP), including neuronal cytoplasmic inclusions (NCIs), dystrophic neurites (DNs), neuronal intra-nuclear inclusions (NIIs), and glial cytoplasmic inclusions (GCIs).

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% 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](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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