

# Biotin-conjugated TDP-43 (C-terminal) Polyclonal antibody

Catalog Number: Biotin-12892

Featured Product

## Basic Information

## Catalog Number:

Biotin-12892

## Size:

1000  $\mu$ g/ml

## Source:

Rabbit

## Isotype:

IgG

## GenBank Accession Number:

BC001487

## GeneID (NCBI):

23435

## UNIPROT ID:

Q13148

## Full Name:

TAR DNA binding protein

## Calculated MW:

43 kDa

## Observed MW:

43-45 kDa, 35 kDa

## Purification Method:

Antigen affinity purification

## Recommended Dilutions:

IHC 1:50-1:500

## Applications

## Tested Applications:

IHC

## Species Specificity:

human, mouse, rat

## Positive Controls:

IHC : mouse brain tissue,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## 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). 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-terminal fragments, 45-50 kDa phosphoprotein, 55 kDa glycosylated form, 75 kDa hyperphosphorylated form, and 90-300 kDa 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)

## Storage

## Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

## Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

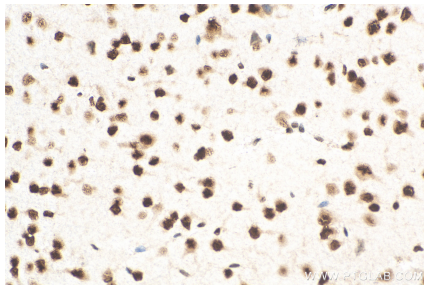
For technical support and original validation data for this product please contact:

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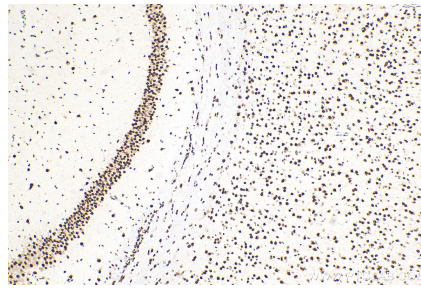
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## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using Biotin-12892 (TDP-43 (C-terminal) antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using Biotin-12892 (TDP-43 (C-terminal) antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).