

# Product Information

## Recombinant Human Anti-Human TDP-43 Monoclonal Antibody

Cat. No.: **HOM-19474**

This product is for research use only and is not intended for diagnostic use.

### Product Overview

Recombinant humanized antibody expressed in CHO binding to human TDP-43.

### Antigen Description

The TARDBP gene provides instructions for making a protein called transactive response DNA binding protein 43 kDa (TDP-43). This protein is found within the cell nucleus in most tissues and is involved in many of the steps of protein production. The TDP-43 protein attaches (binds) to DNA and regulates an activity called transcription, which is the first step in the production of proteins from genes. This protein can also bind to RNA, a chemical cousin of DNA, to ensure the RNA's stability. The TDP-43 gene is involved in processing molecules called messenger RNA (mRNA), which serve as genetic blueprints for making proteins. By cutting and rearranging mRNA molecules in different ways, the TDP-43 protein controls the production of different versions of certain proteins. This process is known as alternative splicing. The TDP-43 can influence various functions of a cell by regulating protein production. The TARDBP gene is particularly active (expressed) during early development before birth when new tissues are forming. Many of the proteins whose production is influenced by the TDP-43 protein are involved in neuronal and organ development.

### Target

TARDBP

### Species Reactivity

Human

### Type

Human IgG

### Expression Host

CHO

### Clone

Monoclonal

### Purity

>95.0% as determined by analysis by RP-HPLC & analysis by SDS-PAGE.

### Applications

ELISA, WB, IHC, FCM, IP, IF. Optimal dilutions/concentrations should be determined by the end user.

### Molecular Weight

145.41 kDa

### Stability

Samples are stable for up to twelve months from date of receipt at -20°C and are stable for six months at 4 °C.

### Storage

Store it under sterile conditions at -20 °C upon receiving. Recommend to pack the antibody into smaller quantities for optimal storage.

**Ship**

2-8°C, BLUE ICE

**ANTIGEN GENE INFORMATION****Gene Name**

[TARDBP TAR DNA binding protein \[ Homo sapiens \]](#)

**Official Symbol**

TARDBP

**Synonyms**

TARDBP; TAR DNA binding protein; TAR DNA-binding protein 43; ALS10; TDP 43; TAR DNA-binding protein-43; TDP-43;

**Gene ID**

[23435](#)

**mRNA Refseq**

[NM\\_007375](#)

**Protein Refseq**

[NP\\_031401](#)

**MIM**

[605078](#)

**UniProt ID**

Q13148

**Chromosome Location**

1p36.22

**Function**

DNA binding; RNA binding; double-stranded DNA binding; mRNA 3-UTR binding; nucleotide binding; protein binding; sequence-specific DNA binding transcription factor activity;