NKMAXBiO we support you, we believe in your research Human TDP-43/TARDBP antibody Catalog Number: ATA0834

## **PRODUCT INFORMATION**

Catalog number ATA0834

**Clone No.** k1B8

Product type Monoclonal Antibody

**UnitProt No.** Q13148

NCBI Accession No. NP\_031401

Alternative Names TAR DNA binding protein, TDP-43, ALS10, TAR DNA-binding protein 43, TDP43

## **PRODUCT SPECIFICATION**

Antibody Host Mouse

Reacts With Human

Concentration 1mg/ml (determined by BCA assay)

# **Formulation** Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen Recombinant human TARDBP (1-260aa) purified from E. coli

# lsotype

lgG1 kappa

**Purification Note** By protein-G affinity chromatography

## Application

ELISA, WB, IHC, FACS

## Usage

The antibody has been tested by ELISA, Western blot, FACS and IHC analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

## Storage

For research use only. This product is not intended or approved for human, diagnostics or veterinary use. Website: www.nkmaxbio.com email: supportbio@nkmax.com



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Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

#### Description

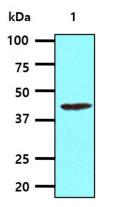
TAR DNA binding protein (TARDBP), also known as TDP-43, is a cellular protein. TARDBP was identified as the disease accumulating protein in patients with frontotemporal lobar degeneration (FTLD) with ubiquitin inclusions (FTLD-U) and in amyotrophic lateral sclerosis (ALS). TARDBP functions as a DNA-binding protein and specifically binds to the TAR DNA sequence motifs of HIV. Via this association with TAR motifs, TARDBP acts as a transcriptional repressor and inhibits HIV-1 transcription. In addition, this protein regulates alternate splicing of the cystic fibrosis transmembrane receptor (CFTR) gene.

#### **General References**

Nicola JR, et al., (2008) PLoS Genet 4(9):e1000193. Kabashi E, et al., (2008) Nat Genet 40(5):572-574. Ou SH, et al., (1995) J Virol 69:3584-3596.

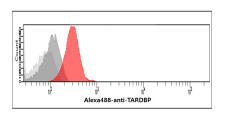
#### DATA

#### Western blot analysis (WB)



The cell lysates (20ug) was resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human TARDBP (1:1,000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: HeLa cell lysate

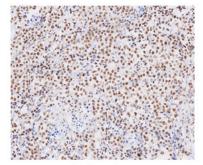
#### Flow cytometry (FACS)



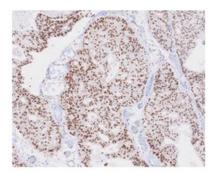
Flow cytometry analysis of TARDBP in HeLa cells. The cell was stained with ATA0834 at 2-5ug for  $1\times10^{6}$  cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).

#### Immunohistochemistry (IHC)

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Seminoma tissue



Human prostate cancer tissue

Paraffin embedded sections of human seminoma tissue were incubated with anti-human TARDBP(1:50) for 2 hours at room temperature. Antigen retrieval was performed in 0.1M sodium citrate buffer and detected using Diaminobenzidine (DAB)

Paraffin embedded sections of human prostate cancer tissue were incubated with anti-human TARDBP(1:50) for 2 hours at room temperature. Antigen retrieval was performed in 0.1M sodium citrate buffer and detected using Diaminobenzidine (DAB)

