

# Human TDP-43/TARDBP antibody

Catalog Number: ATA0834

## PRODUCT INFORMATION

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**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

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**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

**Isotype**

IgG1 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**

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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

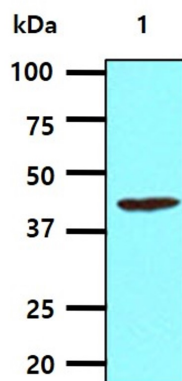
Nicola JR, et al., (2008) PLoS Genet 4(9):e1000193.

Kabashi E, et al., (2008) Nat Genet 40(5):572-574.

Ou SH, et al., (1995) J Virol 69:3584-3596.

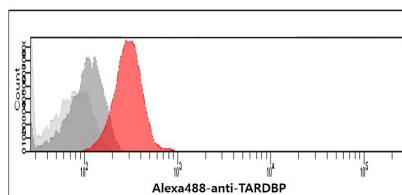
## DATA

### 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)

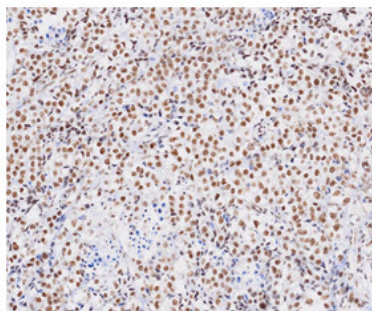


Flow cytometry analysis of TARDBP in HeLa cells. The cell was stained with ATA0834 at 2-5ug for  $1 \times 10^6$  cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).

### Immunohistochemistry (IHC)

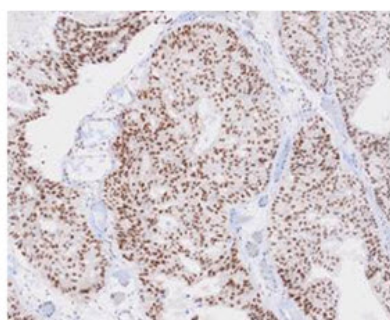
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**Seminoma tissue**

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)



**Human prostate cancer tissue**

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)