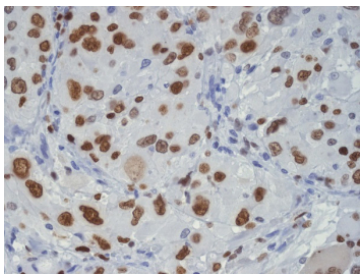
TAR DNA binding protein 43 Antibody / TDP43 / TARDBP [clone 26T75] (RQ8884)

Catalog No.	Formulation	Size
RQ8884	Antibody in PBS with 0.02% sodium azide, 50% glycerol and 0.4-0.5mg/ml BSA	100 ul

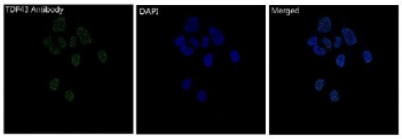
Recombinant RABBIT MONOCLONAL

Bulk quote request

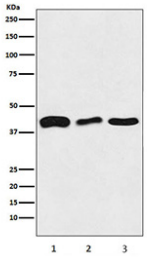
Availability	1-3 days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	26T75
Purity	Affinity chromatography
UniProt	Q13148
Localization	Nuclear, cytoplasmic
Applications	Western Blot : 1:500-1:2000 Immunohistochemistry (FFPE) : 1:50-1:200 Immunofluorescence : 1:50-1:200
Limitations	This TAR DNA binding protein 43 antibody is available for research use only.



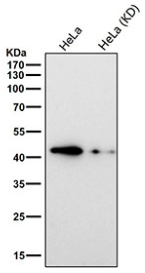
IHC staining of FFPE human glioma tissue with TAR DNA binding protein 43 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Immunofluorescent staining of FFPE human HeLa cells with TAR DNA binding protein 43 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of 1) human HeLa, 2) mouse brain and 3) rat brain tissue lysate with TAR DNA binding protein 43 antibody. Predicted molecular weight ~45 kDa, commonly observed at 43-45 kDa.



Western blot testing of human HeLa cell lysate (wild type and knock down) with TAR DNA binding protein 43 antibody. Predicted molecular weight ~45 kDa, commonly observed at 43-45 kDa.

Description

TAR DNA binding protein 43 is a DNA/RNA-binding protein that shuttles between nucleus and cytoplasm to coordinate RNA metabolism. It recognizes UG-rich sequences via 2 RNA recognition motifs and uses a glycine-rich C-terminus to assemble ribonucleoprotein complexes. TAR DNA binding protein 43 regulates alternative splicing, transcript stability, 3' end processing, and mRNA transport, integrating these steps with transcription-coupled RNA handling across diverse cell types.

It participates in stress-responsive RNA granule dynamics and controlled phase behavior, linking RNA sorting to protein quality control pathways. Its nuclear enrichment, regulated export, and post-translational modification states offer quantitative readouts for studies of RNA processing, trafficking, and cellular adaptation in defined model systems.

The **TAR DNA binding protein 43 antibody** from NSJ Bioreagents enables specific detection of endogenous TDP-43 in applications such as western blot, immunofluorescence, immunohistochemistry, immunoprecipitation, and RNA-protein pulldown workflows. Researchers use the TAR DNA binding protein 43 antibody to measure total protein levels, assess nuclear-cytoplasmic distribution, and evaluate biochemical fractionation or stress-induced relocalization when paired with appropriate complementary reagents. With high specificity and reproducible performance, the TAR DNA binding protein 43 antibody supports rigorous analysis of RNA-binding protein networks and post-transcriptional regulation.

Application Notes

Optimal dilution of the TAR DNA binding protein 43 antibody should be determined by the researcher.

Immunogen

A peptide sequence specific to TAR DNA binding protein 43 was used as the immunogen for the TAR DNA binding

protein 43 antibody.

Storage

After reconstitution, the TAR DNA binding protein 43 Antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.