

Anti-TDP43 TARDBP Antibody

Catalog Number: A01001

About TARDBP

TDP43 was initially identified as a novel cellular protein that bound to HIV-1 virus TAR DNA sequence motifs and acts a transcriptional repressor to the HIV-1 LTR. Later experiments revealed that TDP43 also regulates the splicing of exon 9 of the cystic fibrosis transmembrane conductance regular (CFTR), most likely through the association with the UG repeats at the 3'splice site. A hyperphosphorylated, ubiquitinated, and cleaved form of TDP43 known as pathologic TDP43 is the major disease protein in ubiquitin-positive, tau-, and alpha-synuclein-negative frontotemporal dementia (FTLD-U). TDP43 is not related to TRBP1, and RNA binding protein that binds HIV-1 TAR RNA sequences.

Overview

Product Name	Anti-TDP43 TARDBP Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-TDP43 TARDBP Antibody (Catalog # A01001). Tested in ELISA, WB, ICC, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, ICC, WB
Clonality	Polyclonal
Formulation	TDP43 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	TDP43 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q13148

Technical Details

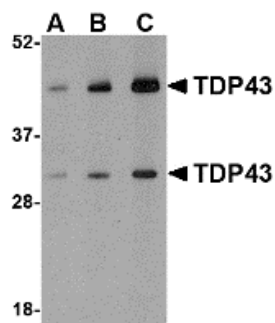
Immunogen	TDP43 antibody was raised against a 15 amino acid synthetic peptide from near the amino terminus of human TDP43. The immunogen is located within amino acids 60 - 110 of TDP43.
Predicted Reactive Species	Chicken
Cross Reactivity	At least two isoforms are known to exist for this protein; this TDP43 antibody will recognize both isoforms.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	TDP43 Antibody is affinity chromatography purified via peptide column.

Suggested Dilutions

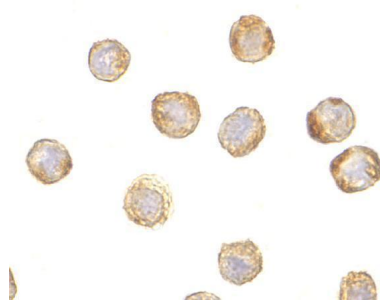
TDP43 antibody can be used for detection of TDP43 by Western blot at 0.5 - 2 ug/mL. Antibody can also be used for immunocytochemistry starting at 5 ug/mL. For immunofluorescence start at 20 ug/mL.

Antibody validated: Western Blot in human samples; Immunocytochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

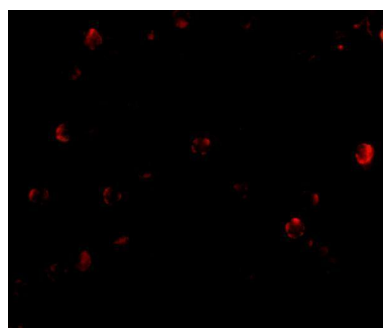
Anti-TDP43 TARDBP Antibody (A01001) Images



Western blot analysis of TDP43 in HeLa cell lysate with TDP43 antibody at (A) 0.5, (B) 1 and (C) 2 ug/mL.



Immunocytochemistry of TDP43 in HeLa cells with TDP43 antibody at 5 ug/mL.



Immunofluorescence of TDP43 in HeLa cells with TDP43 antibody at 20 ug/mL.

1 Publications Citing This Product

1. PubMed ID: 31452277, Zhang Y, Yang C, Yang S, Guo Z. MiRNA-27a decreases ultraviolet B irradiation-induced cell damage. *J Cell Biochem.* 2020 Feb;121(2):1032-1038. doi: 10.1002/jcb.29337. Epub 2019 Aug 26. PMID: 31452277.

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Anti-TDP43 TARDBP Antibody

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