

Rabbit TARDBP Polyclonal Antibody | anti-TARDBP antibody

TARDBP Antibody (N-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA284138	Rabbit	Human, Mouse, Rat; Predicted: Chicken	ELISA, Immunohistochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

TARDBP; Polyclonal Antibody; TARDBP Antibody (N-term); TAR DNA-binding protein 43; TDP-43; TDP43; anti-TARDBP antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat; Predicted: Chicken
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This TARDBP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human TARDBP.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Positions	1-30
Sequence Length	414
Applicable Applications for anti-TARDBP antibody	ELISA, IHC (Immunohistochemistry), IF (Immunofluorescence), WB (Western Blot)
Cellular Location	Nucleus. Cytoplasm. Cytoplasm, Stress granule Note=Continuously travels in and out of the nucleus (PubMed:18957508). Localizes to stress granules in response to oxidative stress (PubMed:19765185).
Tissue Location	Ubiquitously expressed. In particular, expression is high in pancreas, placenta, lung, genital tract and spleen
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)

TARDBP Antibody (N-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human colon tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of TARDBP Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



IF (Immunofluorescence)

Fluorescent confocal image of HeLa cell stained with TARDBP Antibody (N-term). HeLa cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with TARDBP primary antibody (1:25, 1 h at 37 degree). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 degree). Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (7 units/ml, 1 h at 37 degree). Nuclei were counterstained with DAPI (blue) (10 ug/ml, 10 min). TARDBP immunoreactivity is localized to nucleus significantly and Cytoplasm weakly.



WB (Western Blot)

All lanes : Anti-TARDBP Antibody (N-term) at 1:2000 dilution Lane 1: Hela whole cell lysate
Lane 2: A431 whole cell lysate Lane 3: HepG2 whole cell lysate Lane 4: K562 whole cell
lysate Lane 5: NIH/3T3 whole cell lysate Lane 6: Mouse brain tissue lysate Lane 7: Rat brain
tissue lysate Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L),
Peroxidase conjugated at 1/10000 dilution. Predicted band size : 45 kDa Blocking/Dilution
buffer: 5% NFDm/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-TARDBP antibody	Background: HIV-1, the causative agent of acquired immunodeficiency syndrome (AIDS), contains an RNA genome that produces a chromosomally integrated DNA during the replicative cycle. A ctivation of HIV-1 gene expression by the transactivator Tat is dependent on an RNA regulatory element (TAR) located downstream of the transcription initiation site. The protein encoded by this gene is a transcriptional repressor that binds to chromosomally integrated TAR DNA and represses HIV-1 transcription. In addition, this protein regulates alternate splicing of the CFTR gene. A similar pseudogene is present on chromosome 20. [provided byRefSeq]. Function: RNA-binding protein that is involved invarious steps of RNA biogenesis andprocessing (PubMed: 23519609). Preferentially binds, via its two RNArecognition motifs RRM1 and RRM2, to GU-repeats on RNA molecules predominantlylocalized within long introns and in the 3'UTRof mRNAs (PubMed:23519609, PubMed:24240615, PubMed:24464995). In turn, regulates the splicing of many non-codingand protein-coding RNAs including proteinsinvolved in neuronal survival, as well asmRNAs that encode proteins relevant forneurodegenerative diseases (PubMed:21358640, PubMed:29438978). Playsa role in maintaining mitochondrialhomeostasis by regulating the processing ofmitochondrial transcripts (PubMed:28794432). Regulatesalso mRNA stability by recruiting CNOT7/CAF1deadenylase on mRNA 3'UTR leading topoly(A) tail deadenylation and thusshortening (PubMed:30520513). In response to oxidative insult, associates withstalled ribosomes localized to stress granules(SGs) and contributes to cell survival(PubMed:23398327, PubMed:19765185). Participates also in the normal skeletalmuscle formation and regeneration, formingcytoplasmic myo-granules and bindingmRNAs that encode sarcomeric proteins(PubMed:30464263).
Product Categories/Family for anti-TARDBP antibody	Crown Antibodies ; Neuroscience
References	Kim, S.H., et al. J. Biol. Chem. 285(44):34097-34105(2010) Geser, F., et al. Arch. Neurol. 67(10):1238-1250(2010) Mackenzie, I.R., et al. Lancet Neurol 9(10):995-1007(2010) Shan, X., et al. Proc. Natl. Acad. Sci. U.S.A. 107(37):16325-16330(2010) McKee, A.C., et al. J. Neuropathol. Exp. Neurol. 69(9):918-929(2010)

NCBI AND UNIPROT INFORMATION

NCBI GI #	6678271
NCBI GeneID	23435
NCBI Accession #	NP_031401.1
NCBI GenBank Nucleotide #	NM_007375.3
UniProt Accession #	Q13148 ; Q53H27 ; Q6FI92 ; Q96DJ0 ; A4GUK4 ; A4GUK5 ; A4GUK6 ; B2R629 ; B4DJ45 ; E2PU12
NCBI Official Full Name	TAR DNA-binding protein 43
NCBI Official Synonym Full Names	TAR DNA binding protein
NCBI Official Symbol	TARDBP
NCBI Official Synonym Symbols	ALS10; TDP-43
NCBI Protein Information	TAR DNA-binding protein 43

UniProt Protein Name	TAR DNA-binding protein 43
UniProt Gene Name	TARDBP
UniProt Synonym Gene Names	TDP43; TDP-43
UniProt Entry Name	TADBP_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/tardbp-antibody-immunohistochemistry-immunofluorescence-western-blot-elisa/284138>