

Human Tar DNA Binding Protein 43kDa (TDP43) ELISA Kit | TDP43 elisa kit

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CATALOG #
AAA20352

REACTIVITY
Human

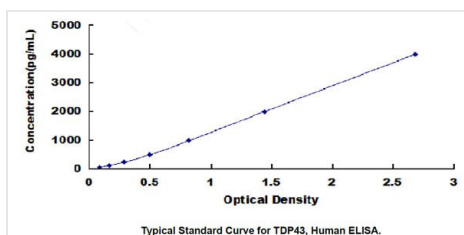
PRODUCT SYNONYMS

Tar DNA Binding Protein 43kDa (TDP43); Human Tar DNA Binding Protein 43kDa (TDP43) ELISA Kit; TARDBP; ALS10; TDP43 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of TDP43. No significant cross-reactivity or interference between TDP43 and analogues was observed.
Sequence Length	416
Assay Type	Quantitative Sandwich
Samples	Human serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	62.5-4,000pg/mL
Sensitivity	< 24.2pg/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level TDP43 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level TDP43 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TDP43 elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to TDP43. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to TDP43. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain TDP43, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of TDP43 in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of TDP43 in human serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
Product Categories/Family for TDP43 elisa kit	Signal transduction; Infection immunity; Developmental science; Immunodeficiency
References	Combination of ciprofloxacin/celecoxib as a novel therapeutic strategy for ALS; Amyotroph Lateral Scler Frontotemporal Degener; 2023 May;24(3-4):263-271.; PMID: 36106817; Shiran Salomon-Zimri; NeuroSense Therapeutics, Ltd, Herzliya, Israel.

NCBI AND UNIPROT INFORMATION

NCBI GI #	130750552
Molecular Weight	31,808 Da
NCBI Official Full Name	TDP43
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://www.aaabiotech.com/human-elisa-kits/tar-dna-binding-protein-43kda-tdp43/20352>